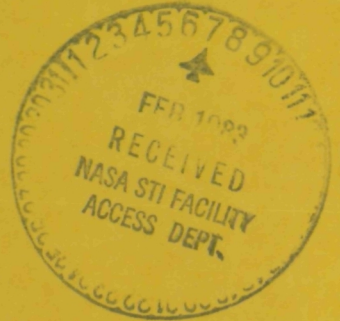
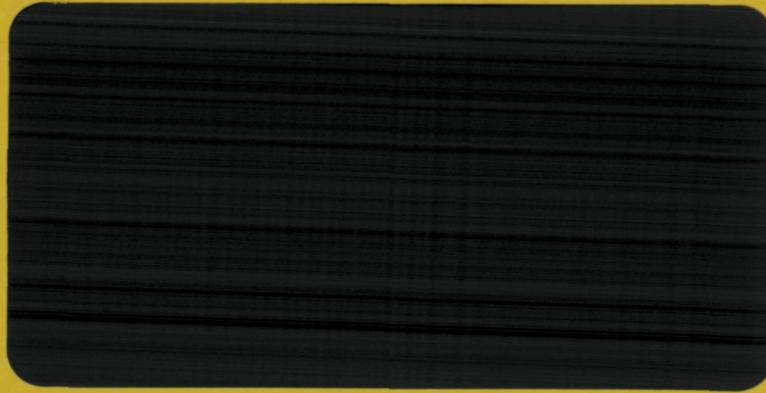


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OSTA COMMONALITY ANALYSIS
FINAL REPORT
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SECTION 1. INTRODUCTION



SECTION 1. INTRODUCTION

1.1 BACKGROUND

Achieving improvements in the handling of data within the National Aeronautics and Space Administration (NASA) is receiving considerable emphasis at the present time. This emphasis is based on recognition of problems with present data systems and requirements for the handling of substantially increased data volumes in the near future within budget constraints. These increases in data volume result from scientific requirements, advanced sensor technology, increased capability of future spacecraft and enhanced mission models. Obviously the requirements may be met by substantial increases in the operating budget or by improvements in data handling procedures; the former approach is an unacceptable alternative. The NASA End-to-End Data System (NEEDS) concept is an activity being developed at the present time in order to achieve the required improvement in data systems capability where this activity may be subdivided into a logical set of development activities.

As a requirement on this data systems development the Office of Space and Terrestrial Applications (OSTA) has adopted an objective to provide users of Earth-watching spacecraft with timely and readily usable data. The users may be categorized by science discipline as follows:

- o Agriculture, Forestry and Rangeland
- o Water Resources
- o Water Quality
- o Coastal Zone
- o Cryosphere
- o Air Quality
- o Ocean Processes
- o Severe Storms
- o Global Weather
- o Climate
- o Geodynamics



- o Non-renewable Resources
- o Land Use

This objective is important, since current data systems do not have sufficient capability to satisfy all the user requirements. For instance,

- a. Insufficient capability exists for the processing of all required data products on several programs e.g., approximately only one-half of Landsat multispectral scanner images may be prepared with present capabilities.
- b. Backlogs of several years of unprocessed data exist for several satellite programs and these backlogs are growing.
- c. Delivery of the data is not as timely as required. This problem results from the requirements and techniques used for correlating ancillary data with the sensor data.
- d. Not all data are resident within the archives and the data are frequently difficult to locate.
- e. The data are frequently not in a convenient form for subsequent usage.

As part of the required data systems development activity the OSTA is currently developing an overall OSTA data system concept, which is intended as a long-term planning tool for OSTA data systems. This concept was discussed extensively at the OSTA Data Systems Planning Workshop held at the Wallops Flight Center on October 9-12, 1979. In the context of the above objective, the provision of raw data, data processed into usable parameter data sets and information products, and cataloging, archiving, management and data dissemination services, as appropriate, were recognized as important.

The preparation of parameter data sets is considered significant, since it has been recognized that most programs and applications use data derived from many sources and/or disciplines. This utilization of multi-disciplinary data results from the rapidly maturing status of many OSTA



programs and the complexity of solving many of the environmental and resource problems facing the world today. In an evaluation by Shaffer, Ernst and Painter (OSTA Disciplines/Parameters/Sensors Commonality Analysis, November 6, 1979) it was shown that, most parameters were utilized by several disciplines.

1.2 STUDY OBJECTIVES

From an examination of the preliminary analysis by Shaffer, Ernst and Painter the input material to the OSTA Data systems Planning Workshop, and other documents it was apparent that there are potentially numerous commonalities of needed source data (conventional plus space-derived) and parameters (derived from the source data or other parameters).

In some instances it is readily apparent that a given parameter would be required by several disciplines. For example, information concerning precipitation would certainly be of interest to various applications under agriculture, water resources, water quality, severe storms, global weather, etc. In other instances the need for a given parameter by a discipline may be apparent only to a disciplinary expert. Therefore, one of the first objectives of this study was to demonstrate the high level of interdisciplinary requirements for most parameters.

However, recognition that a given parameter is required by several disciplines is not sufficient to determine whether or not the commonality is real or only apparent. Even when a parameter is required by several disciplines and/or applications the parameter characteristics, such as accuracy, spacial or temporal resolution, frequency of measurement, etc., may be sufficiently different that sharing of parameter data sets is not feasible. Thus the second objective was the systematic identification of user parameter requirements and parameter characteristics for OSTA applications in order to define branches and nodes for data distribution and sizing of decentralized data sub-systems.

The third objective was to develop a methodology and framework for evaluating commonality of user requirements so as to illuminate areas of



potential cost savings and increased efficiency through greater cooperation in data collection, processing, and dissemination.



SECTION 2. METHODOLOGY



SECTION 2. METHODOLOGY

2.1 COMPLEXITY OF PROBLEM

Confirmation and determination of the extent of the commonality amongst OSTA parameter requirements and derivation capabilities is a complex task, since these requirements and capabilities have transpired in response to the diverse objectives of many disciplines. Identification of the applications and their associated parameter requirements for each discipline requires a detailed understanding of the disciplines and applications. Many applications have evolved to resolve current environmental and resource problems and the scientific understanding required to satisfy these objectives or modeling requirements is frequently at or beyond the state-of-the-art. Similarly, the sensor technology required for the derivation of certain parameters is at or beyond present capabilities. The utilization of multi-disciplinary data sources or parameters combined with complex models to define the physical processes underlying an application makes evaluation more complex. In addition, it is evident that for certain applications the input parameter requirements have been constrained by available data sources and/or scientific understanding of the physical processes and that advances in either area could change the requirements significantly.

A complete identification of all applications and their input parameter requirements is clearly beyond the scope of this study. However, over 450 applications and their parameter requirements have been identified through an extensive literature search. There are limitations associated with a literature search such as has been undertaken for this study. First, many current and future investigations have not yet been documented. Second, journal articles tend to focus on results and provide information on only the most critical input parameters and their characteristics. Thus not all required input parameters are documented. Third, many studies are based on data from a particular sensor/mission. From the known capabilities of the sensor it is possible to determine what parameter characteristics were adequate for the performance of the investigation. However, this does not



provide information about the range of feasible values for the parameter characteristics. It would be much more informative to know the minimum values of accuracy, resolution, frequency of update, etc. that would still allow the investigation to produce useful results. It would also be desirable to know what the investigators consider to be the desired values of these characteristics and how improvements in accuracy, resolution, etc. would effect the reliability and scope of the investigation. Finally, a literature search provides very little information concerning what additional investigations would become feasible with improvements in the input data.

2.2 METHODOLOGY

The first step of this study was to compile a list of current and proposed applications and investigations sponsored by the OSTA disciplines to meet NASA goals and objectives. The extensive amount of documentation available for the various disciplines, discussions with pertinent individuals, and in-house experience provided a preliminary list of applications and subapplications for each discipline. The various applications, subapplications, investigations and experiments were then arranged in a hierarchical fashion into discipline trees. The main function of the trees is to provide a logical framework for identifying and organizing the applications.

The next step was to determine the parameters and their associated characteristics required by each of these applications. It soon became apparent that the amount of data generated by this step would be so large that any meaningful manipulation or analyses of the data would require a computerized database.

Several database management systems were reviewed for suitability and availability. The A.R.A.P. Data Retrieval System (DRS) was selected due to its capability to perform "inverse searches". This feature provides a great deal of flexibility. Although a dozen or so different useful ways of looking at the data have been identified, it is certain that others will arise once the database becomes more widely used. DRS is designed to be used interactively. A series of searches, either more or less restrictive,



can be performed easily. Thus, in a very few minutes, the user can locate the optimum item(s) in the data base with respect to a particular, and possibly unique, set of specifications and have them listed in any order. Finally, the data can be maintained and updated with a minimum of effort. Section 5 discusses several possible applications of the database and provides sample printouts.



SECTION 3. DISCIPLINE APPROACH



SECTION 3. DISCIPLINE APPROACH

3.1 INTERRELATIONSHIPS AMONG DISCIPLINES

Due to formal training and organizational structure most of us have traditionally thought along disciplinary lines. However, most of the problems of today and tomorrow are of such complexity that their solutions require an inter-disciplinary approach. The OSTA disciplines are interrelated in a complex way. Figure 3.1.1 shows a causal-relational diagram of some of these interrelationships.

Consider, for example, climate which is essential weather averaged over a period of time of one month or longer. Weather is primarily related to the physical environment: temperature, humidity, precipitation, winds, amount of sunlight, etc. Climate is concerned with these same parameters only on a longer time scale. Climate at the Earth's surface is of greatest interest to man, although processes in the stratosphere, troposphere, hydrosphere (oceans), and cryosphere (snow and ice) all affect the surface climate in profound ways. The chemical state of the atmosphere near the surface of the Earth (air quality) is also part of the climate, and it often has a significant direct effect on human beings, animals, and plants. The chemistry of the atmosphere has an indirect effect on man by changing the physical climate through the ability of vegetation to affect surface albedo and moisture evaporation processes. A reciprocal relationship exists between the effects of climate on man and his ecosystem and the effects of man and his actions on the climate. Thus the climate system includes many different elements and their associated interrelationships. Not only are the boundaries between climate and the related disciplines of global weather, severe storms, air quality, ocean processes and the cryosphere not clearly defined, but also the boundaries between climate, land use, and agriculture are crossed by many studies.

Since the OSTA disciplines are interrelated, some applications span disciplinary lines. Climate applications include ocean-atmosphere effects on general circulation models, ocean interaction with global climate system,

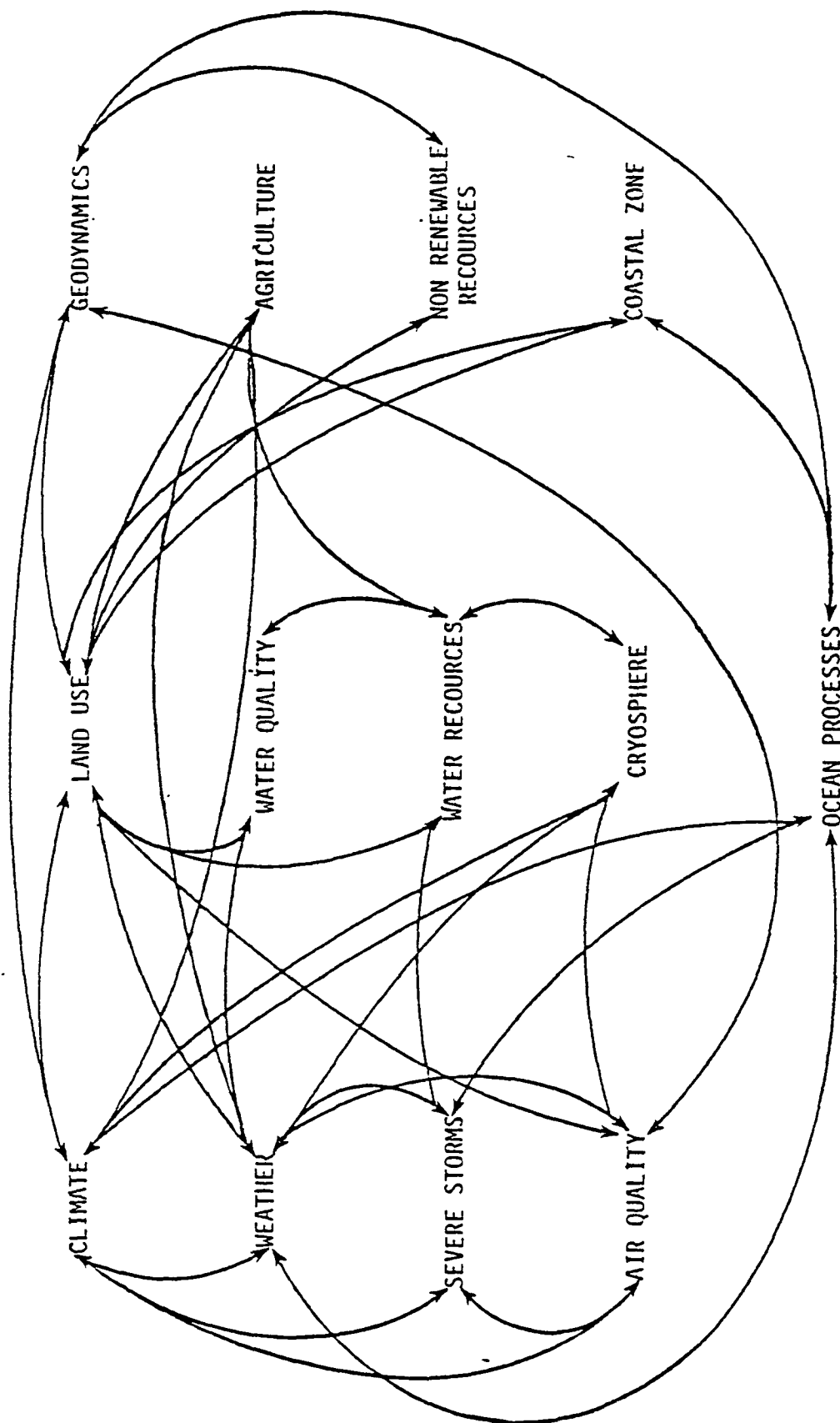


Figure 3.1.1. Interrelationships Among OSTA Disciplines



ocean-atmosphere interface studies, and cryosphere-ocean affects on general circulation model.

The discipline trees in the next section show many applications that require inputs from more than one discipline.

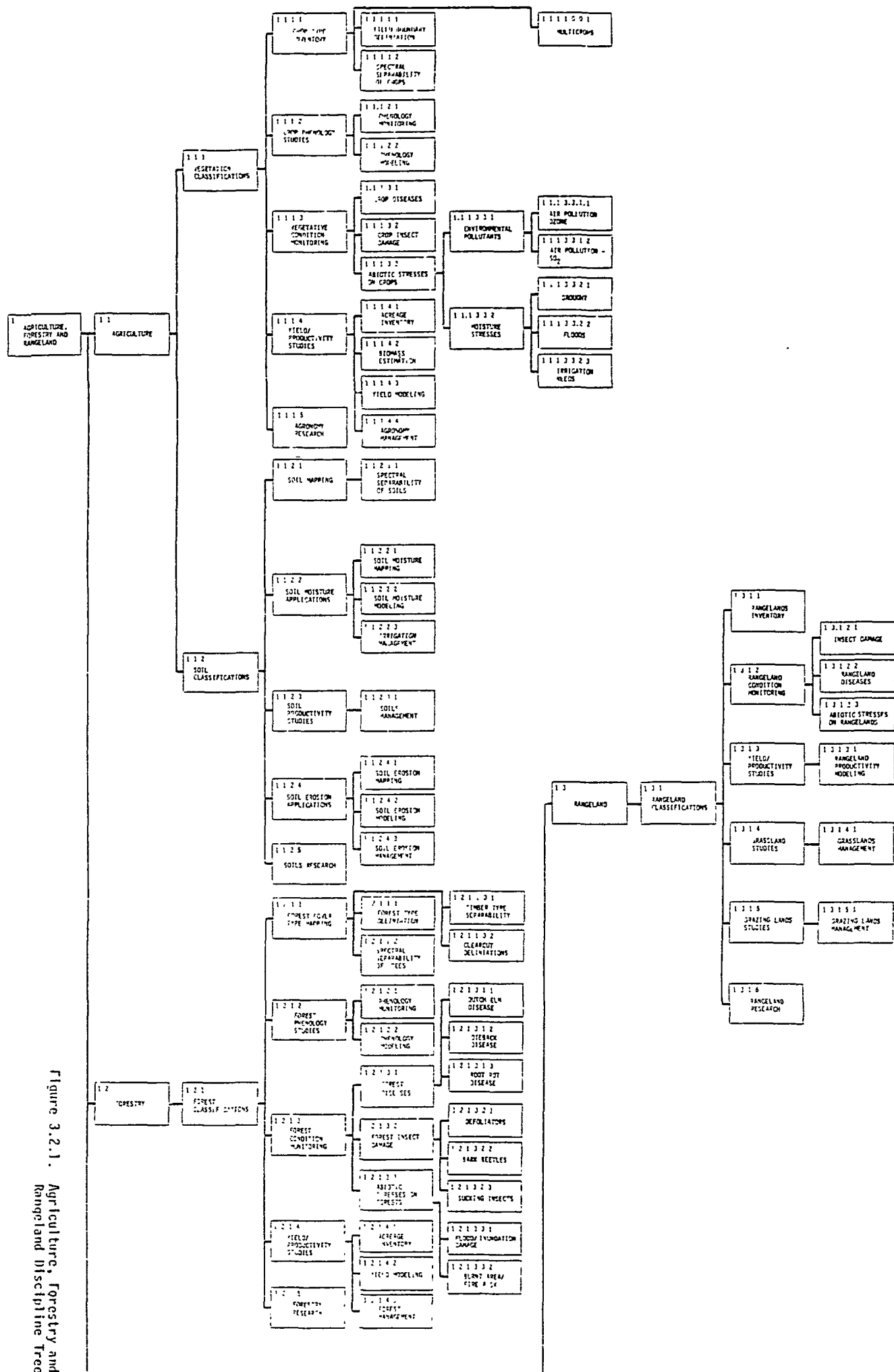
3.2 DISCIPLINE TREES

The discipline trees shown in figures 3-1 through 3-13 provide an overview of each of the thirteen OSTA discipline areas. The primary purpose of these trees is to provide a logical framework to aid in the identification and grouping the applications, subapplications, investigations and experiments being conducted within each discipline.

Each block in the tree has been assigned a tree number for reference purposes. As will be explained in section 5.2, either the tree number or the application title can be used to retrieve data from the commonality database. The first digit(s) in the tree number refer to the discipline as follows:

- 1 . Agriculture, Forestry, and Rangeland
- 2 Water Resources
- 3 Water Quality
- 4 Coastal Zone
- 5 Cryosphere
- 6 Air Quality
- 7 Ocean Processes
- 8 Severe Storms
- 9 Global Weather
- 10 Climate
- 11 Geodynamics
- 12 Non-renewable Resources
- 13 Land Use

Numbers of the form X.X refer to major areas of interest within the discipline. For example, global weather (9.0) is divided into two major areas weather forecasting (9.1) and meteorological research (9.2). Weather forecasting is then divided into long range forecasting (9.1.1), medium



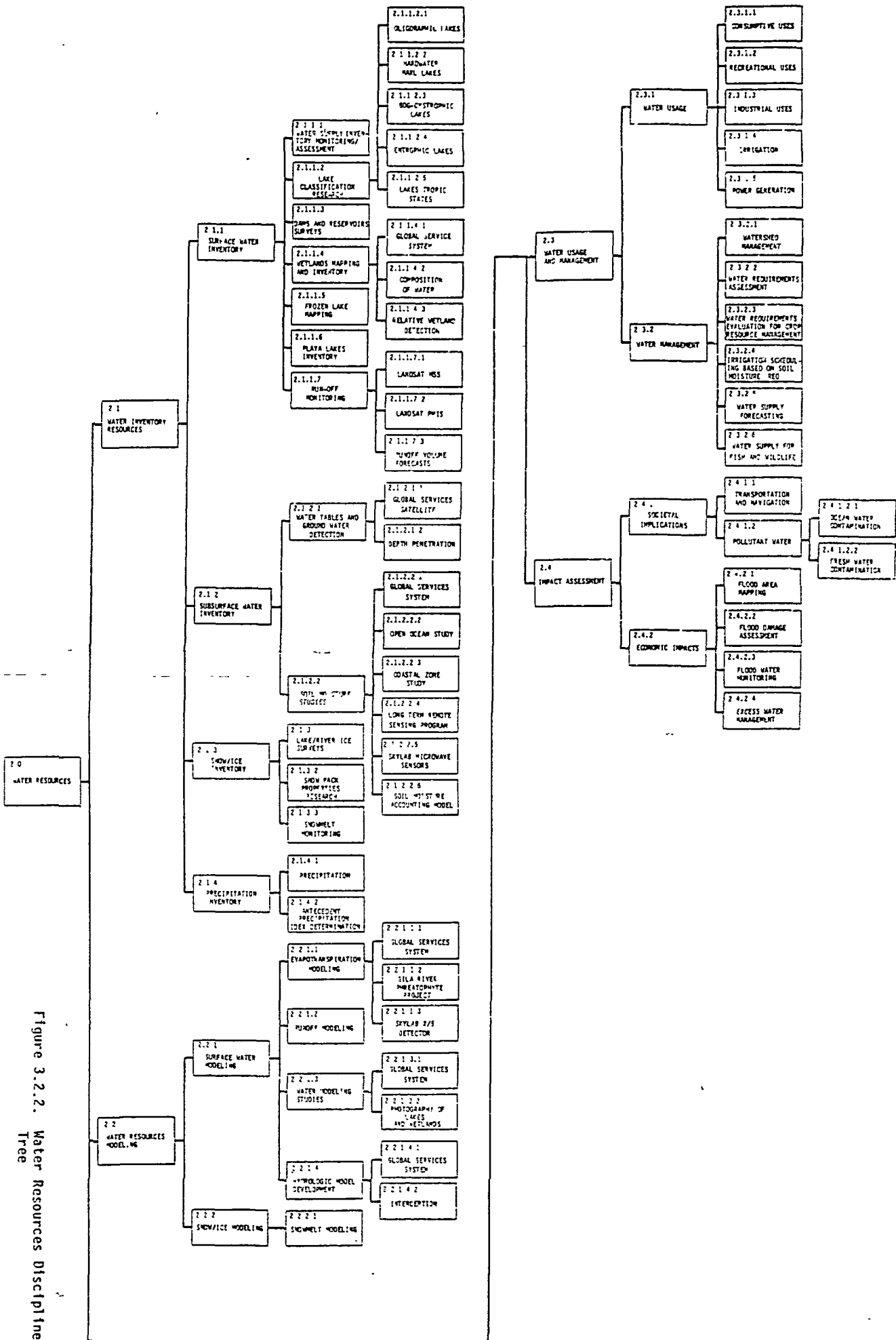
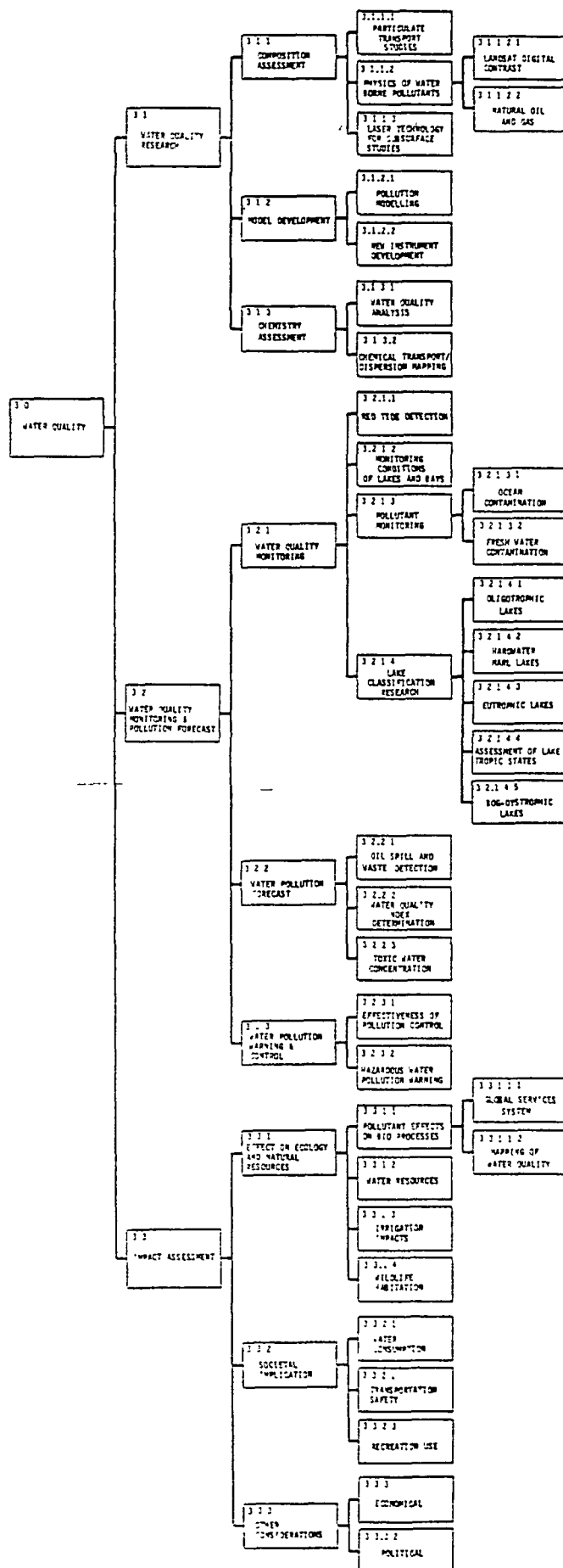


Figure 3.2.2. Water Resources Discipline Tree

Figure 3.2.3. Water Quality Discipline Tree



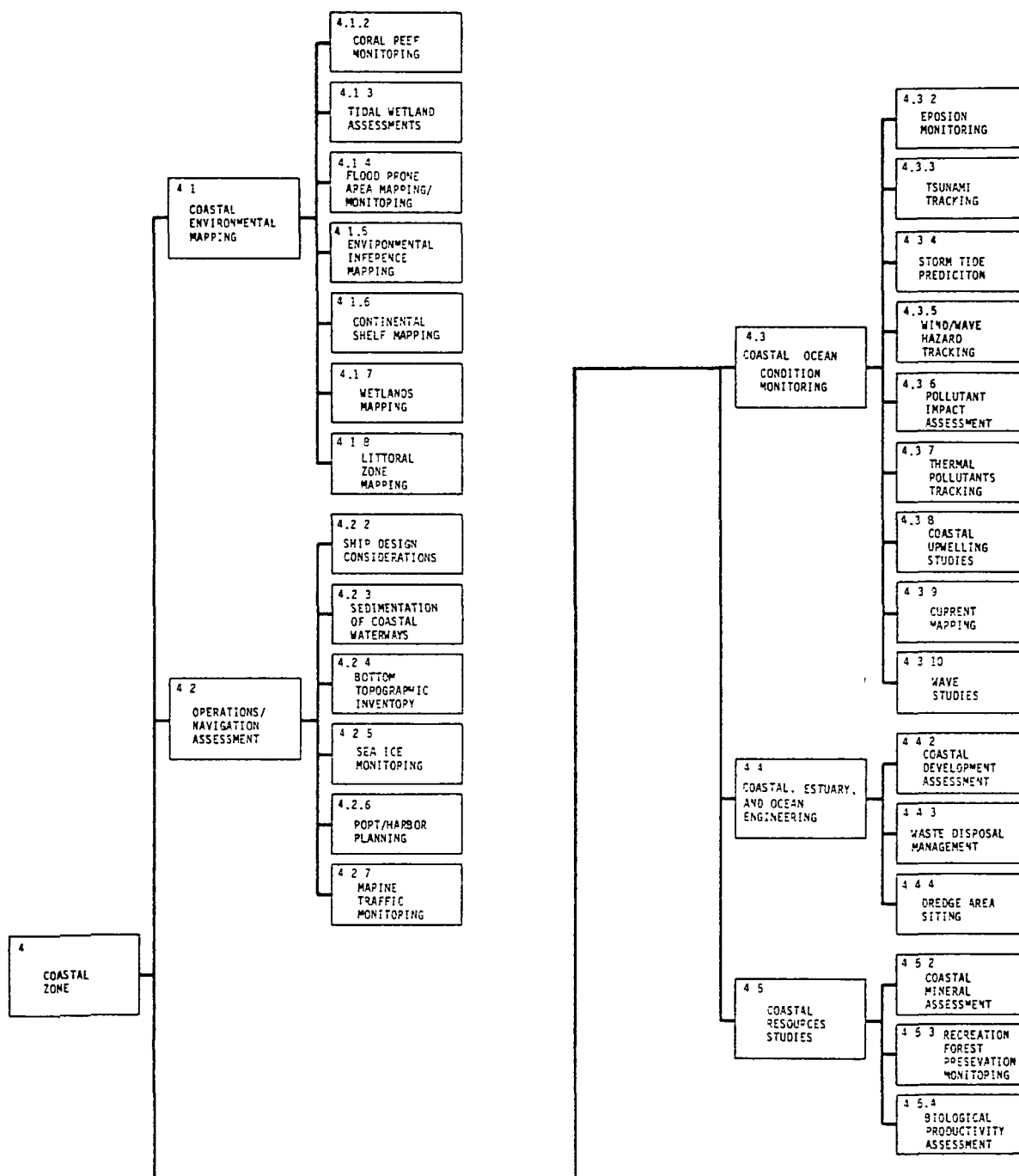


Figure 3.2.4. Coastal Zone Discipline Tree

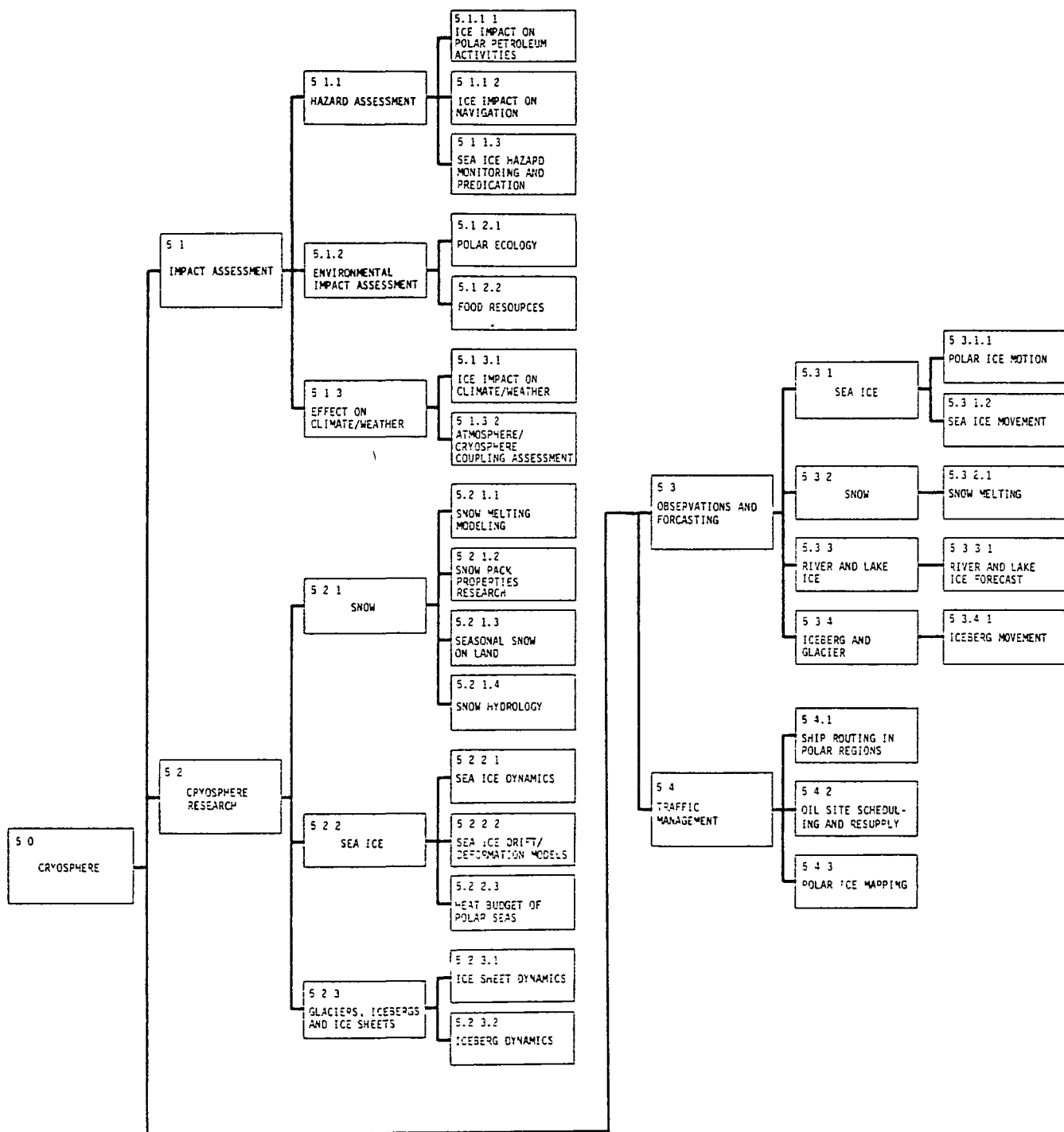


Figure 3.2.5. Cryosphere Discipline Tree

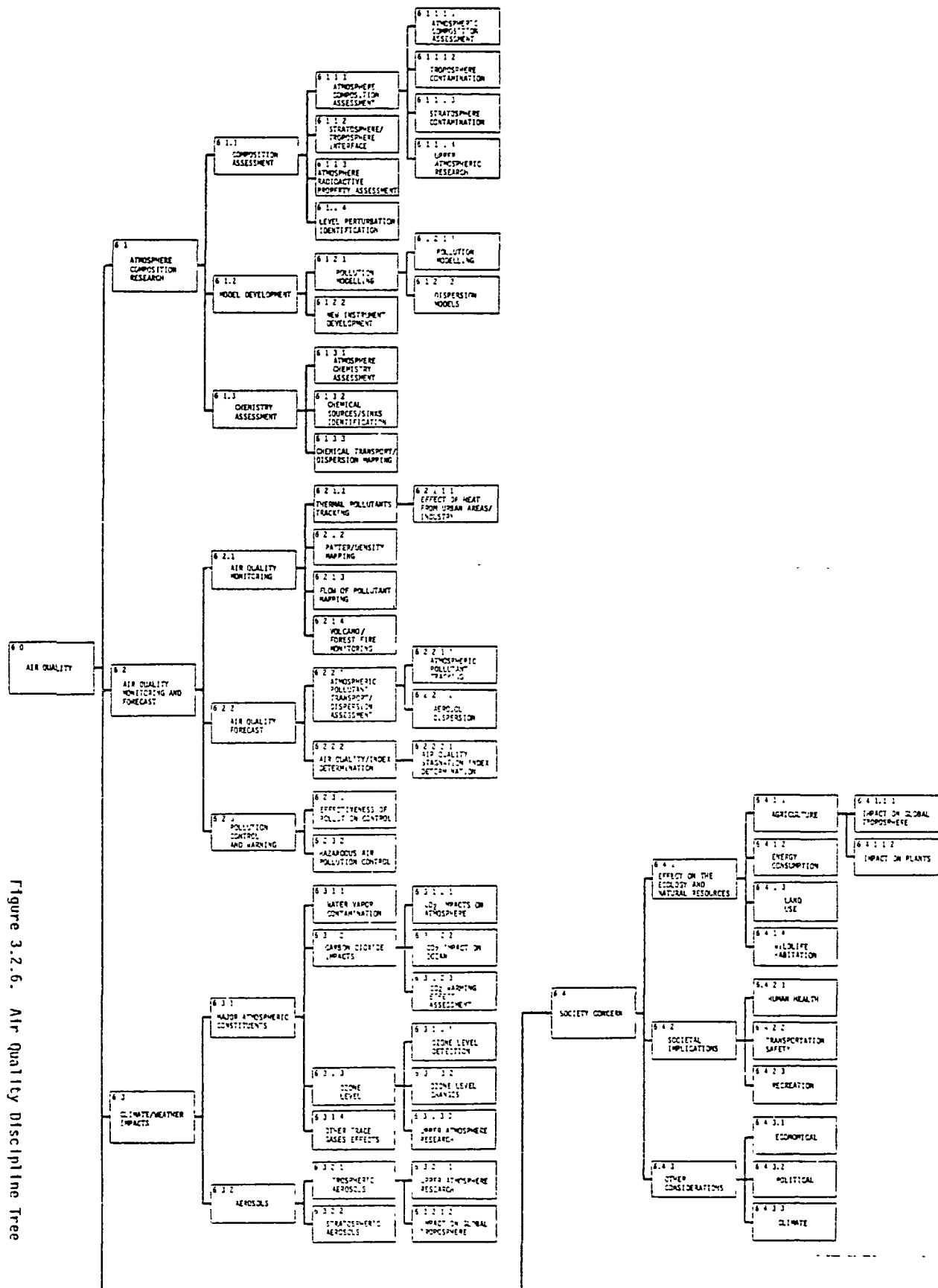
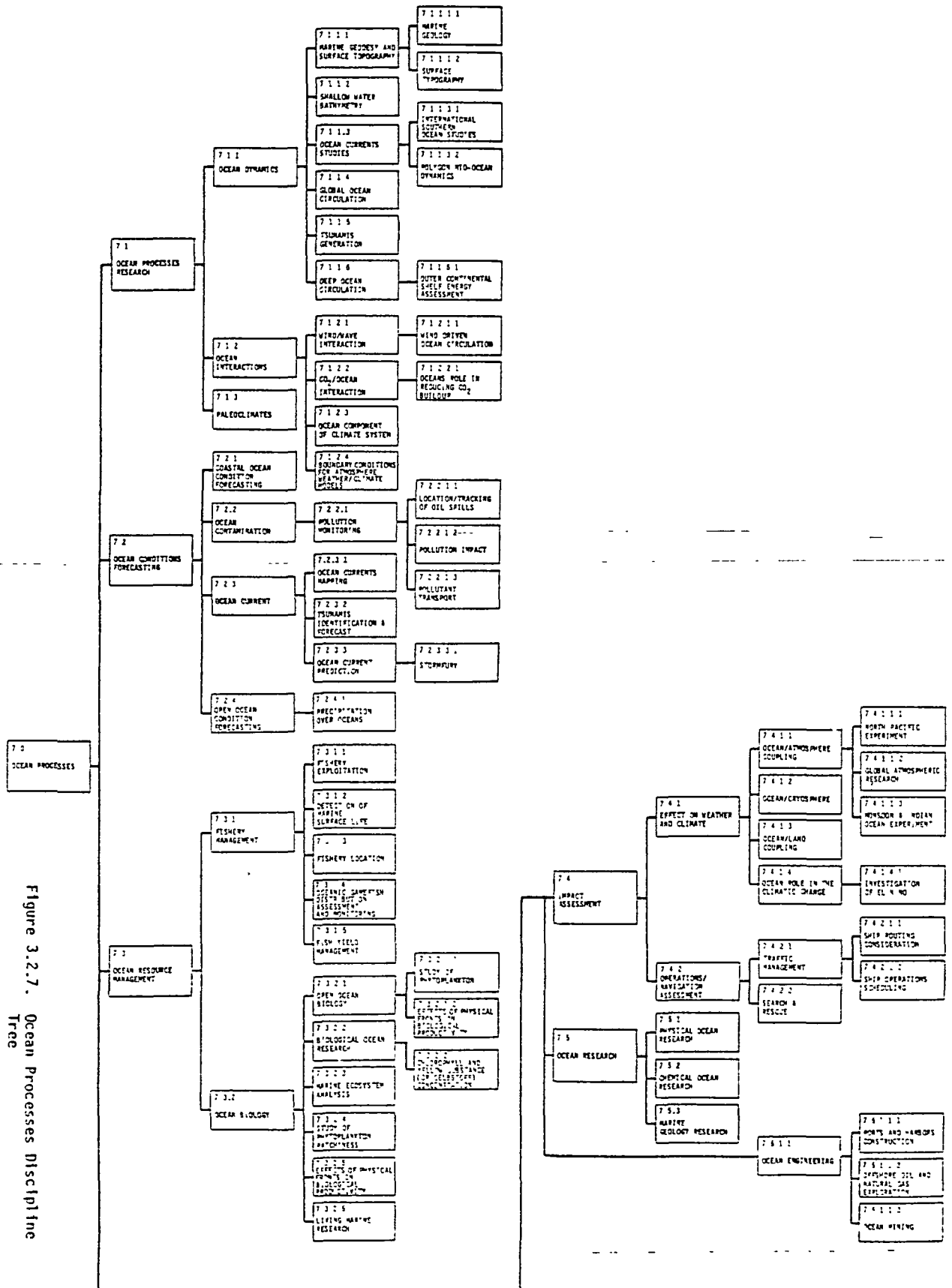


Figure 3.2.6. Air Quality Discipline Tree



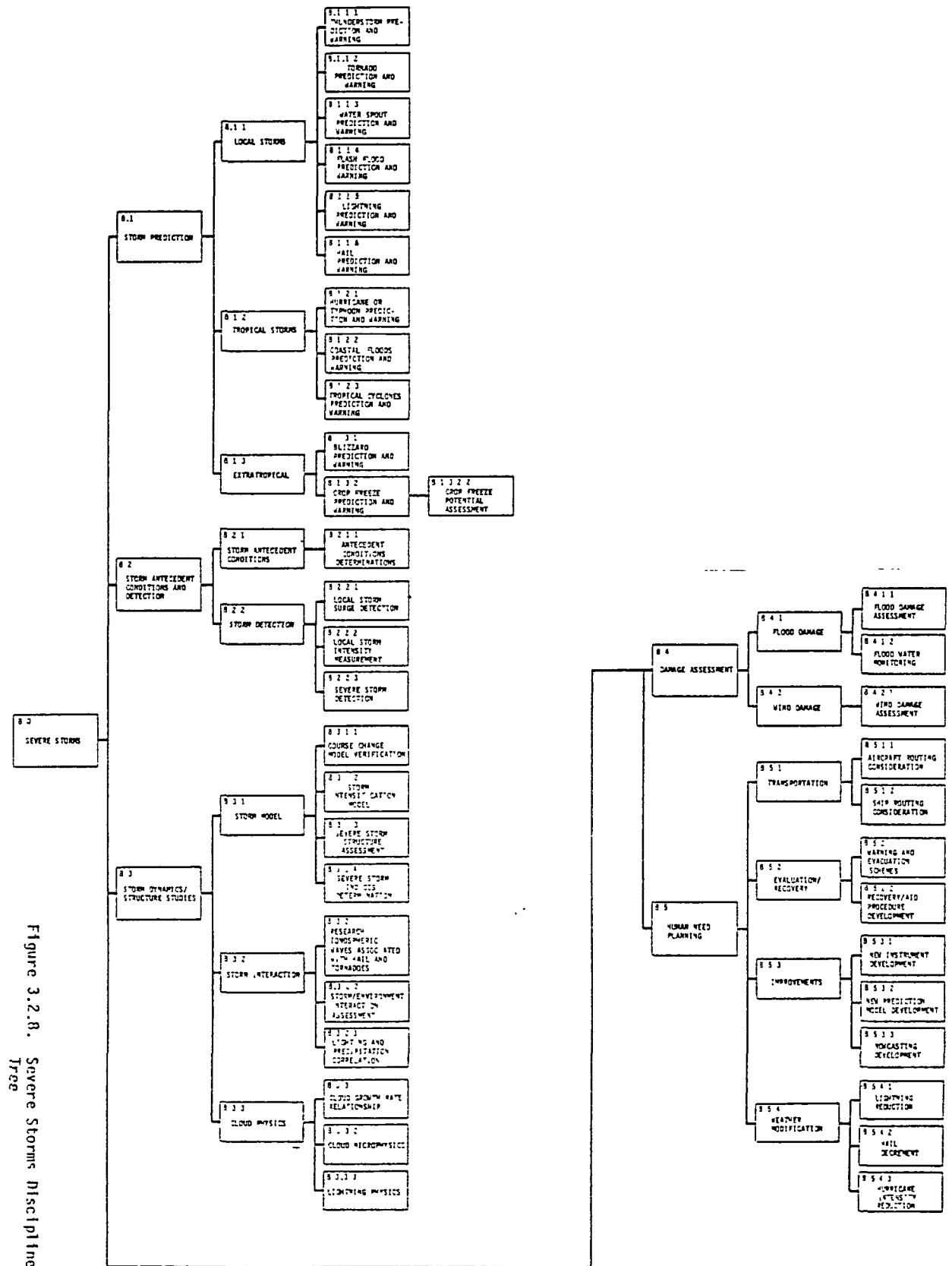


Figure 3.2.8. Severe Storms Discipline Tree

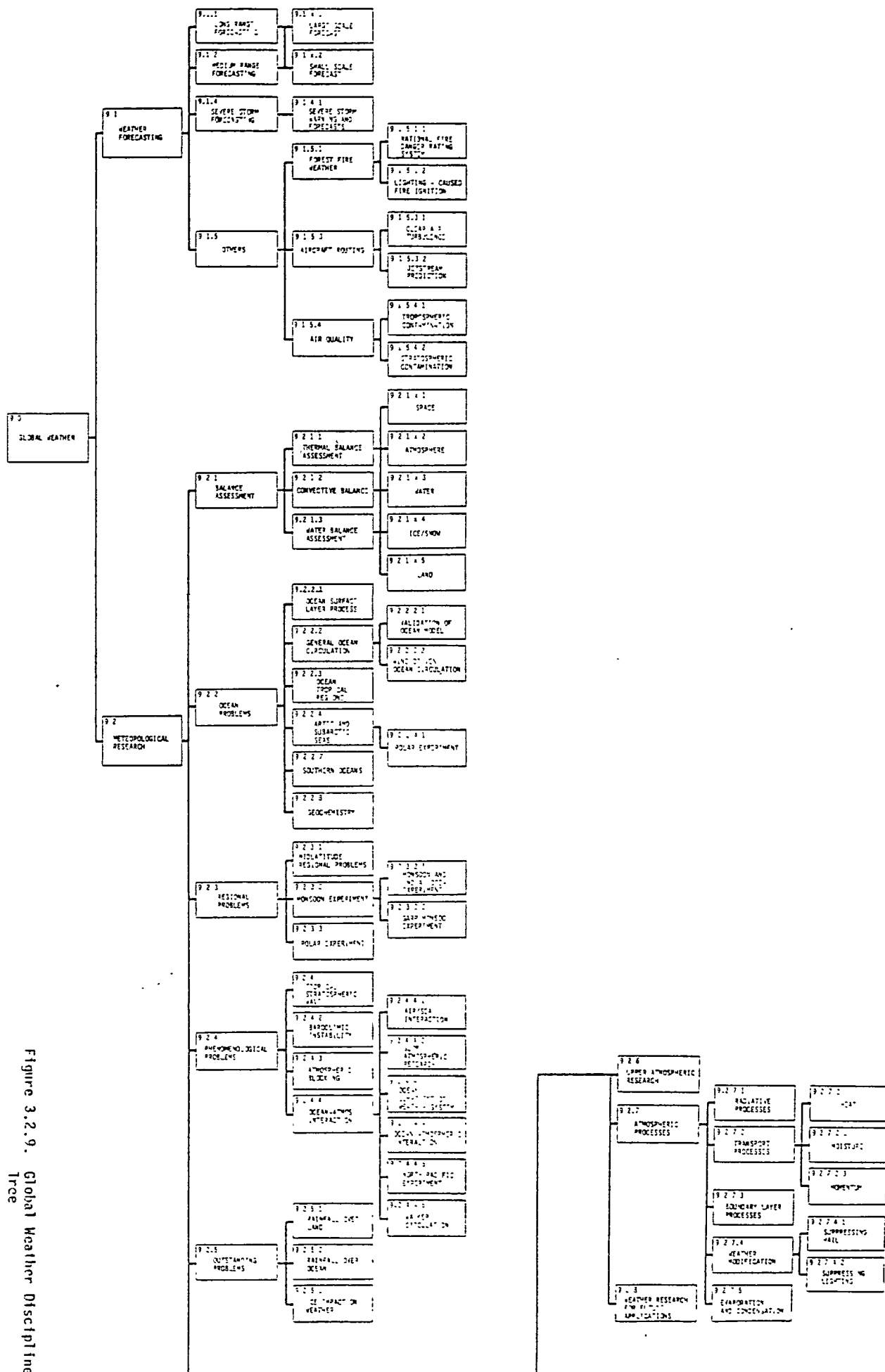


Figure 3.2.9. Global Weather Discipline Tree

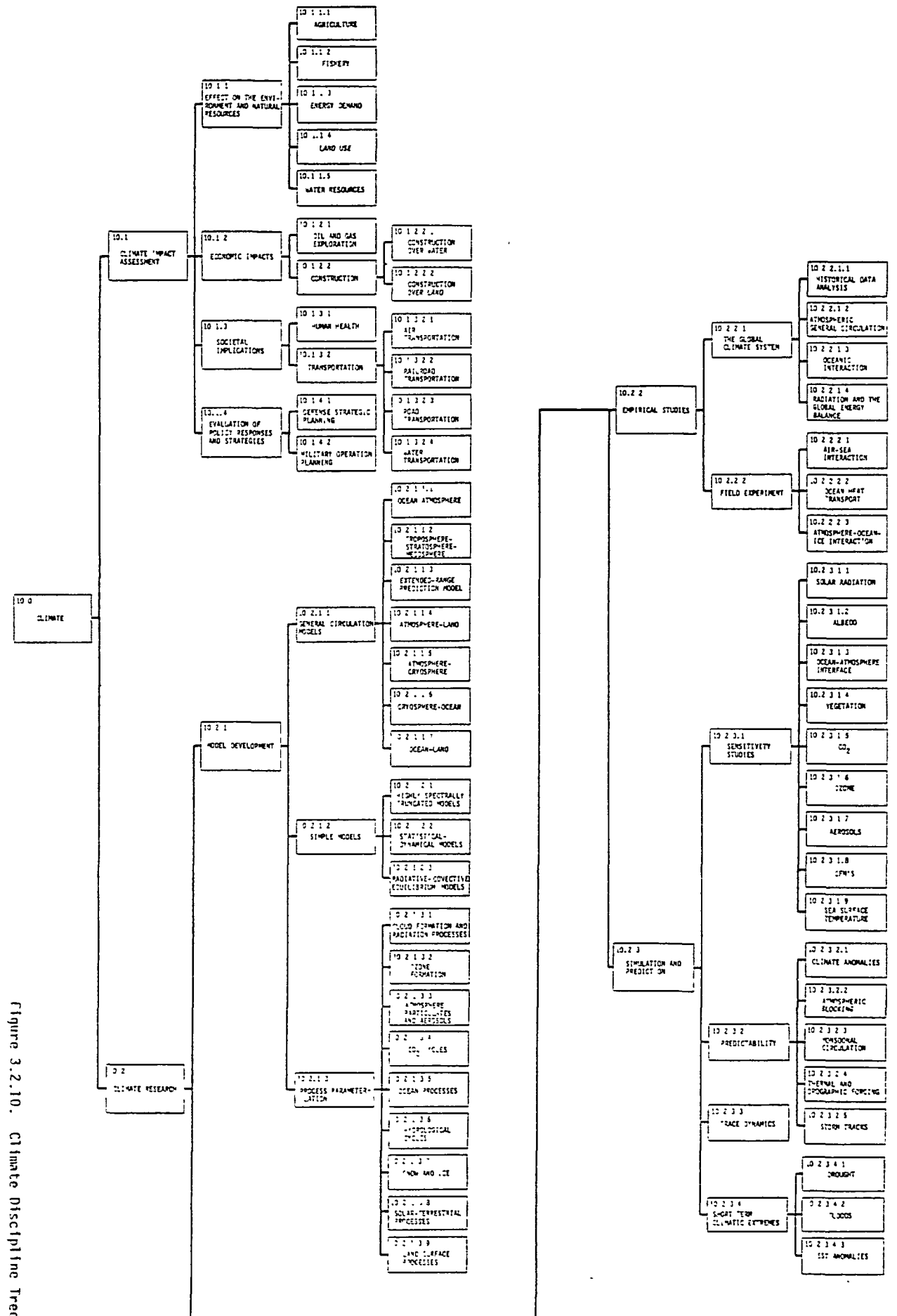


Figure 3.2.10. Climate Discipline Tree

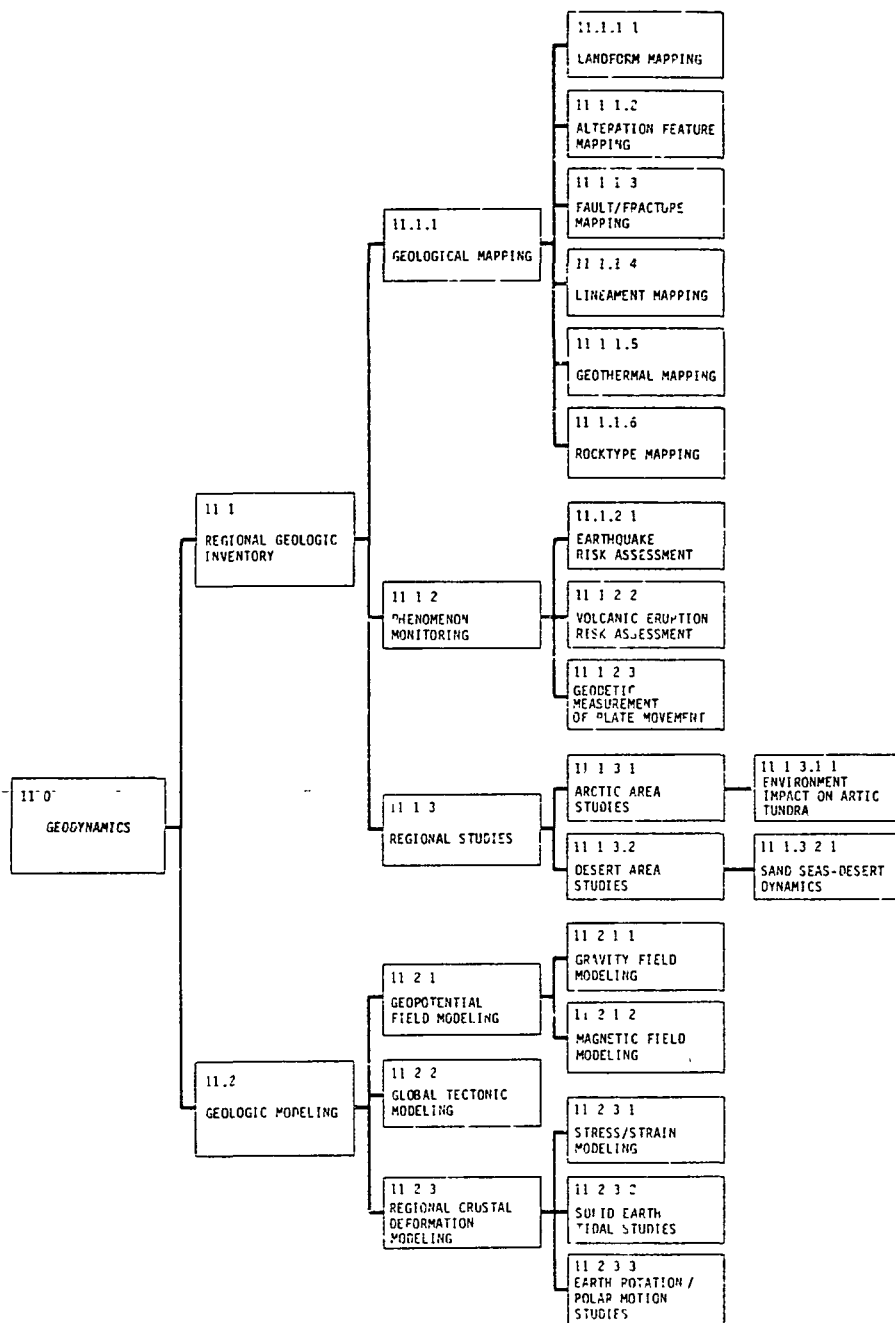
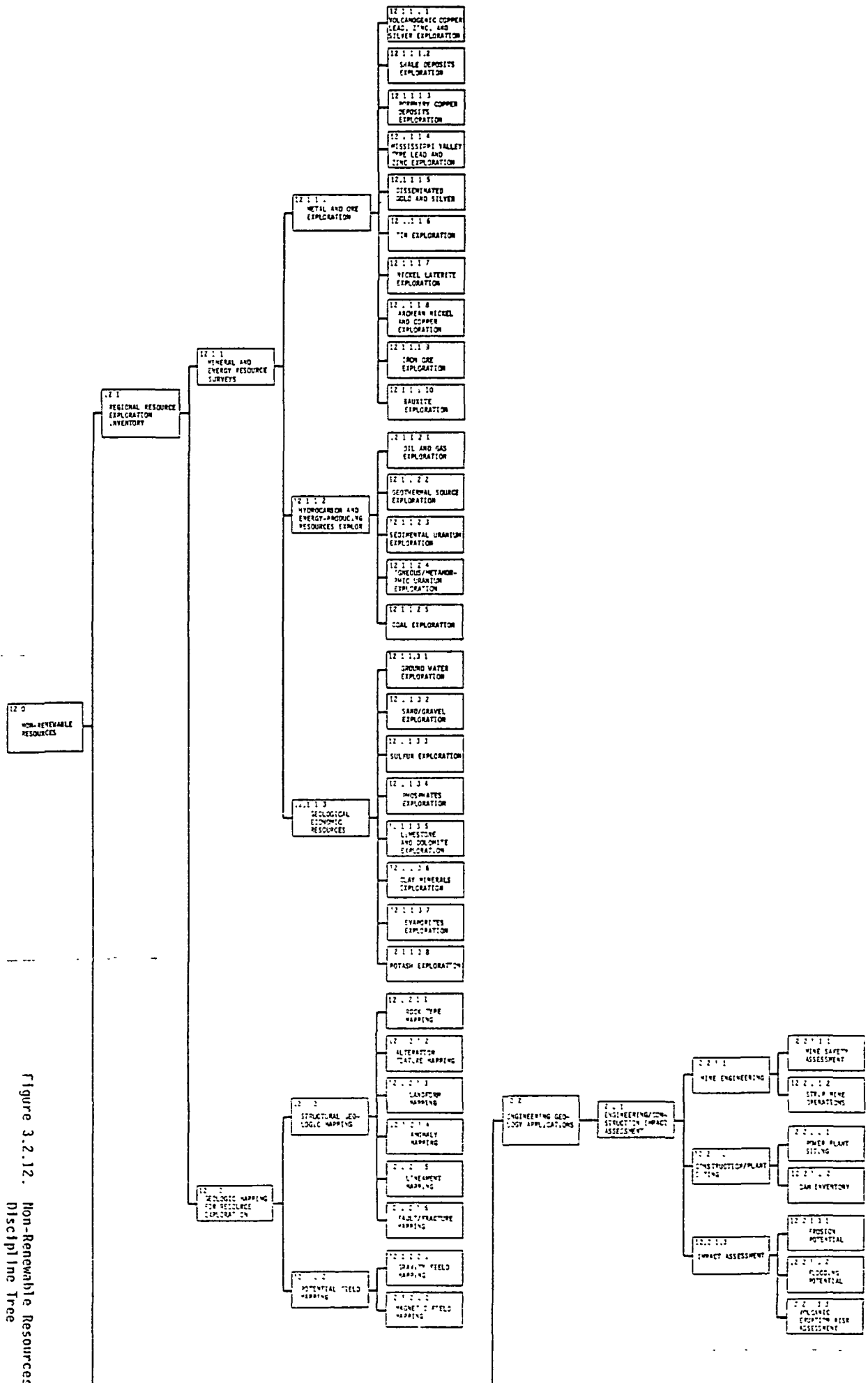


Figure 3.2.11. Geodynamics Discipline Tree



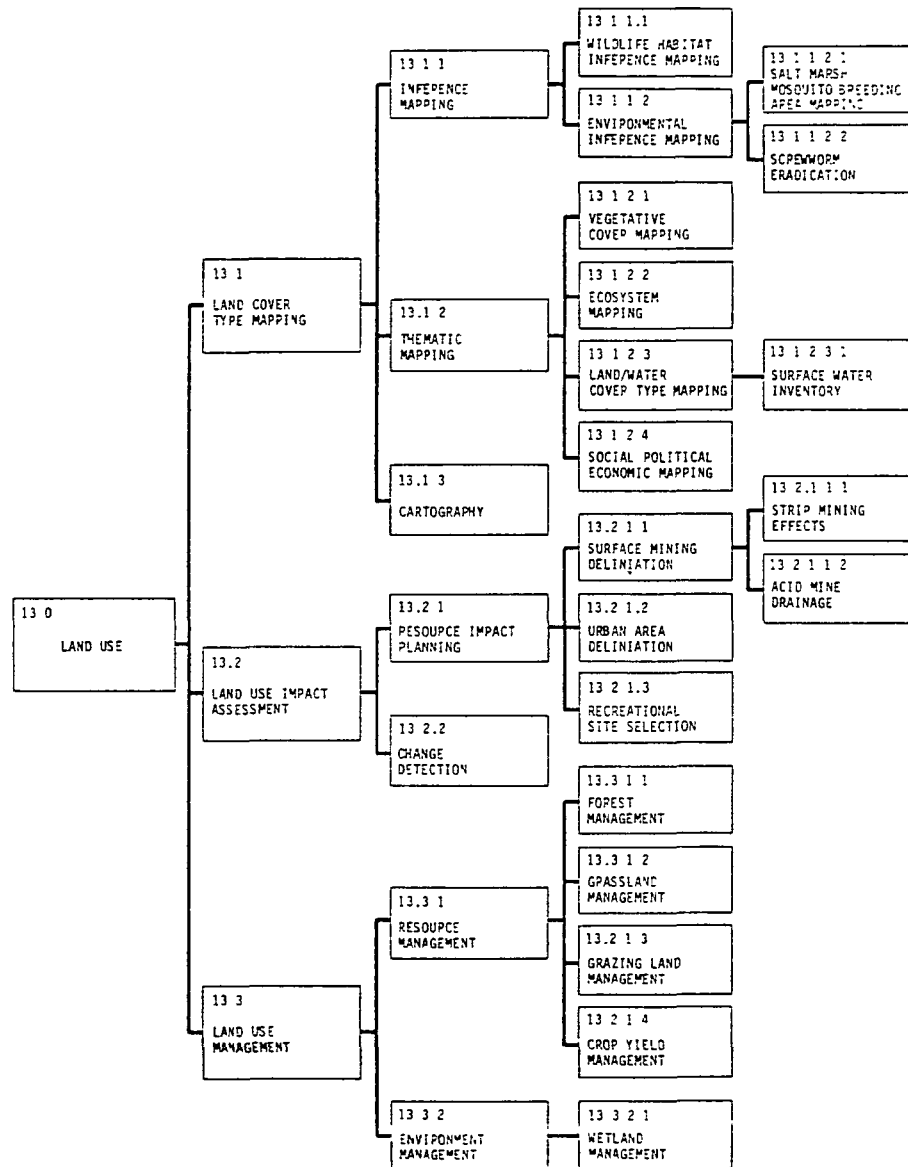


Figure 3.2.13. Land Use Discipline Tree



range forecasting (9.1.2), etc. Each of these can be subdivided into large scale forecasts (9.1.X.1) and small scale forecasts (9.1.X.2). Thus as the depth of the tree increases the applications become more specific.

Closely related applications generally have similar parameter requirements, however as the applications become more specific the range of acceptable parameter characteristics becomes more restrictive.

3.3 SELECTION OF APPLICATIONS

Since user requirements for a parameter are dependent upon the application for which the parameter is needed it is necessary to look at specific applications in order to distinguish real from apparent commonalities. OACO recognizes that identification of all applications supported by OSTA disciplines is a difficult task. Therefore this study was limited to compiling a representative sample of applications large enough to provide a bases for establishing the extent of user requirement commonality. The disipline trees in section 3.2 provide a logical framework for ordering the applications and subapplications and allow for the addition of more applications and subapplications in the future.



SECTION 4. PARAMETERS



SECTION 4. PARAMETERS

4.1 PARAMETER SELECTION

In order to identify potential commonalities it is necessary to look at the parameter level.

OSTA recognizes several data set levels as defined in Table 4.1.1. Level 2 data can also be described as derived data sets obtained from Level 1 data as a result of additional information extraction. However, the OSTA Overall Data Systems Panel 6 Report of December 17, 1979 states:

"Because of the variety of discipline-unique processing applied to Level 1 data, it became apparent that it was neither possible nor purposeful to adopt, at the Workshop, a uniformly acceptable definition of data sets beyond Level 1."

For purposes of this report the term parameter will generally refer to Level 2 or higher data. While it is difficult to precisely define "parameter" the term will be used to refer to basic quantities required by users. Thus parameters may be derived directly from sensor data or from a combination of modeled parameters.

Parameter selection is difficult because parameters vary greatly in the level of processing necessary to determine them. Basic parameters are those that can be obtained from the raw sensor data through conversion, calibration, or use of simple algorithms. For image data the basic parameters are color, tonal, and textural patterns. For example, vegetative condition can be determined from color. By combining basic pattern recognition, and possibly other data, drainage patterns, landforms, and land use patterns may be obtained. From the parameters color, tonal patterns, landform and drainage patterns, it is possible to infer complex structural geology, geomorphologic, and tectonic processes.

The commonality database contains all three levels of parameters. It is often difficult to determine the parameter level that should be included in the database. This can only be decided by looking at specific applications



Table 4.1.1. Data Set Levels

Level	Description
Level 0	Reconstructed sensor raw data at full resolution
Level 1A	Reconstructed sensor raw data at full resolution, time-referenced and annotated with ancillary information, with radiometric and geometric calibration coefficients and georeferencing parameters computed and appended but not applied to the Level 0 data. In some cases, individual flight projects may choose to apply radiometric calibrations to the data, so long as this process is reversible.
Level 1B	Level 1A data, with Radiometric and geometric coefficients applied; raw image data may be resampled in accordance with the following user-specified parameters: <ul style="list-style-type: none">- resampling (nearest neighbor, cubic, etc.)- map projection- pixel size
Level 2	Derived physical parameters (ocean wave height, soil moisture, sea surface temperature, etc.)
Level 3, 4	Model outputs or other aggregated representations

Ref: OSTA Overall Data Systems Panel 6 Report, December 17, 1979



and their input requirements. In general applications that are basically research oriented require the lower level parameters. Applied applications often prefer the higher level parameters.

Selection of parameter names posed several difficulties. Each discipline has developed its own terminology. As a result the same or very similar "parameters" may have different names in different disciplines. In other cases the same name may be used by different disciplines for different data sets or physical parameters. Even within a single discipline various references may use slightly different terminology. Considerable effort has been devoted to developing the parameter list to be used in the commonality database. Where possible parameter names were standardized. It is recommended that as additional data is added to the database consideration be given to developing a thesaurus that will facilitate "parameter" searches and still allow the retention of discipline unique terminology.

4.2 PARAMETERS VS. DISCIPLINES

Table 4.2.1 is a matrix of parameters and the disciplines that use them. This matrix is based on referenced data actually in the database. As more applications are added to the database the number of commonalities will increase. In addition, many of the applications in the database do not have complete parameter lists. In an attempt to insure the integrity of the database only parameters that could be referenced to a source document were included. Thus in reviewing this matrix it should be kept in mind that a blank box does not necessarily mean that the given parameter is not used by a discipline. It simply means that no reference document linking the parameter to an application within that discipline has yet been reviewed.

However, the number of entries in the matrix does indicate a high level of apparent commonality. The matrix facilitates the identification of those parameters that have a large community of users and therefore a high probability that cost savings could be achieved through cooperative data collection and processing.

4.3 PARAMETER CHARACTERISTICS

In order to distinguish between real and apparent commonalities it is necessary to look at parameter characteristics. Simply knowing that two

PARAMETERS	DISCIPLINES												
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
ABIOTIC STRESS	X	X											X
ABIOTIC STRESS EXTENT	X												
AEROSOL PHYSICAL SIZE			X										
AEROSOLS			X						X	X			
AIR INSTABILITY						X		X	X				
AIR QUALITY INDEX						X							
AIR TEMP	X	X			X	X		X	X	X			
AIR/SEA TEMP DIFF							X		X				
AIRCRAFT LOCATION								X					
AIRCRAFT ROUTE								X					
AL						X							
ALGAE CONCEN		X	X										
ALGAE EXTENT			X				X						
ALGAE TYPE		X					X						
ALTERATION FEATURES											X	X	
ANOMALY LOCATION													X

Table 4.2.1. Commonality of Parameters by Discipline

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND											LAND USE
	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	
ANTECEDENT PRECIP INDEX	X				X							
ANTHROPOGENIC POLLUTANTS							X					
ANVIL GROWTH												
AR					X							
AREA DETERMINATION							X					
ASH & SAND ACCUM RATE									X			
ASPECT	X											X
ASTRONOMICAL/STORM TIDES		X				X	X	X	X			X
ATMOSPHERIC DUST CONTENT					X				X			
ATMOSPHERIC MIXING RATE	X				X							
ATMOSPHERIC PARTICULATES					X							
ATMOSPHERIC TRANSMITTANCE	X				X							
AUTOMOBILE DENSITY					X							X
BACTERIAL SEWAGE EXTENT						X						
BACTERIAL SEWAGE LOC						X						
BASELINE LENGTH										X		

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
BASELINE MEASUREMENT												X		
BENTHIC FOSSILS											X			
BIOMASS		X			X									
BOTTOM CONDITIONS						X								
BOUNDARY CHANGE										X				
BRIGHTNESS TEMP			X											
CA							X							
CAROTENOIDS				X										
CFCL0											X			
CFMS CONCEN							X							
CFXCLY							X			X	X			
CF2CL2											X			
CHEMICAL PESTICIDE CONCEN		X	X	X										X
CHEMICAL PESTICIDE EXTENT		X	X											X
CHEMICAL PESTICIDE TYPE		X	X											X
CHEMICAL POLLUTANT CONCEN								X						X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
CHEMICAL POLLUTANT EXTENT								X						X
CHEMICAL POLLUTANT TYPE			X					X						X
CHLORIDES				X										
CHLOROPHYLL		X	X	X	X			X						X
CH ₂ CL ₂							X							
CH ₄							X			X				
CL							X							
CL ₂ O							X			X				
CLONO ₂							X							
CLOUD COVER			X	X		X	X	X	X	X	X			
CLOUD DIURNAL VARIATION											X			
CLOUD GROWTH RATE									X					
CLOUD H ₂ O CONTENT									X					
CLOUD LATNET HEAT RELEASE									X	X				
CLOUD LEVEL			X					X	X	X	X			
CLOUD MOVEMENT									X	X				

Table 4.2.1.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
CLOUD PARTICLE SIZE DISTRIB		X					X	X	X				
CLOUD PHASE								X					
CLOUD TEMP							X		X				
CLOUD THICKNESS						X	X	X	X	X			
CLOUD TOP HEIGHT							X	X	X				
CLOUD TOP TEMP					X	X		X	X	X			
CLOUD TYPE		X						X	X	X			
CLOUD/ATMOS ALBEDO					X	X			X	X			
CL2						X			X				
CO						X			X	X			
COAST LINE									X				
COASTAL CURRENTS				X									
COASTAL/ESTUARY CIR AMP		X	X				X					X	
COASTAL/ESTUARY CIR DIR		X	X				X					X	
COASTAL/ESTUARY CIR LOC		X	X				X					X	
COLOR, TONAL PATTERNS	X	X		X			X				X	X	X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS \ DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
DRAINAGE PATTERNS	X	X	X	X					X		X	X	X
DRIFT CURRENT							X		X				
DROUGHT INDEX	X	X							X				X
DRY BIOMASS				X									
EARTH SPIN AXIS									X				
EARTH SPIN RATE									X				
EDDY LOCATION							X						
EDDY TOPOGRAPHY							X						
ELECTRIC FIELD DISTRIB								X					
ELECTRICITY DISTRIB								X	X				
EMISSIVITY		X	X			X							
EQ-TO-POLE RADIATION GRAD									X				
EQ-TO-POLE TEMP GRAD						X							
EROSION LEVEL	X												
EROSION RATE	X	X		X					X				
EROSION TYPE		X									X	X	

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
FLOOD LEVEL								X				X
FLOOD PLAIN EXTENT												X
FOLD ELEMENTS												
FOSSIL PLANKTON COMPOS										X		
FREE WATER CONTENT					X				X			
FRONTS LOCATION												
FORZEN GROUND EXTENT		X							X			X
FUEL MOISTURE									X			X
F2									X			
GALACTIC RADIATION		X										
GAMMA RAY ENERGY DISTRIB									X			
GEOID LOCATION											X	
GRAVITY FIELD STRENGTH											X	X
GRAVITY WAVES								X				
GROUND TILT											X	
GROUND WATER LOCATION		X										

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
H							X							
H, HE, AR										X				
HCL							X			X				
HE							X							
HEAT CONTENT OF UPPER LAYER										X	X			
HEAT TRANSPORT			X			X				X				
HF							X			X				
HG							X			X				
HIGH PRESSURE PATTERN										X				
HHO3							X			X				
HOCL														
HORIZONTAL WIND						X			X					
HO2							X							
HO2, H2O2, H2O5, CLOH2, HOCL										X				
HYDROCARBONS							X							
H2CO										X				

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
H2O						X			X	X			
H2O CONTENT						X							
H2O2						X							
H2S						X			X				
ICE ACCUMULATION RATE					X								
ICE AGE		X			X		X						
ICE BOTTOM SURFACE ROUGHNESS					X								
ICE BOUNDARY					X				X				
ICE CONCEN					X				X				
ICE DEFORMATION RATE					X				X				
ICE DRIFT RATE		X			X				X	X			
ICE EXTENT		X			X				X	X			
ICE FLOE DIR				X									
ICE FLOE LOCATION		X			X					X			
ICE FLOE SIZE				X						X			
ICE FREEZING RATES		X											

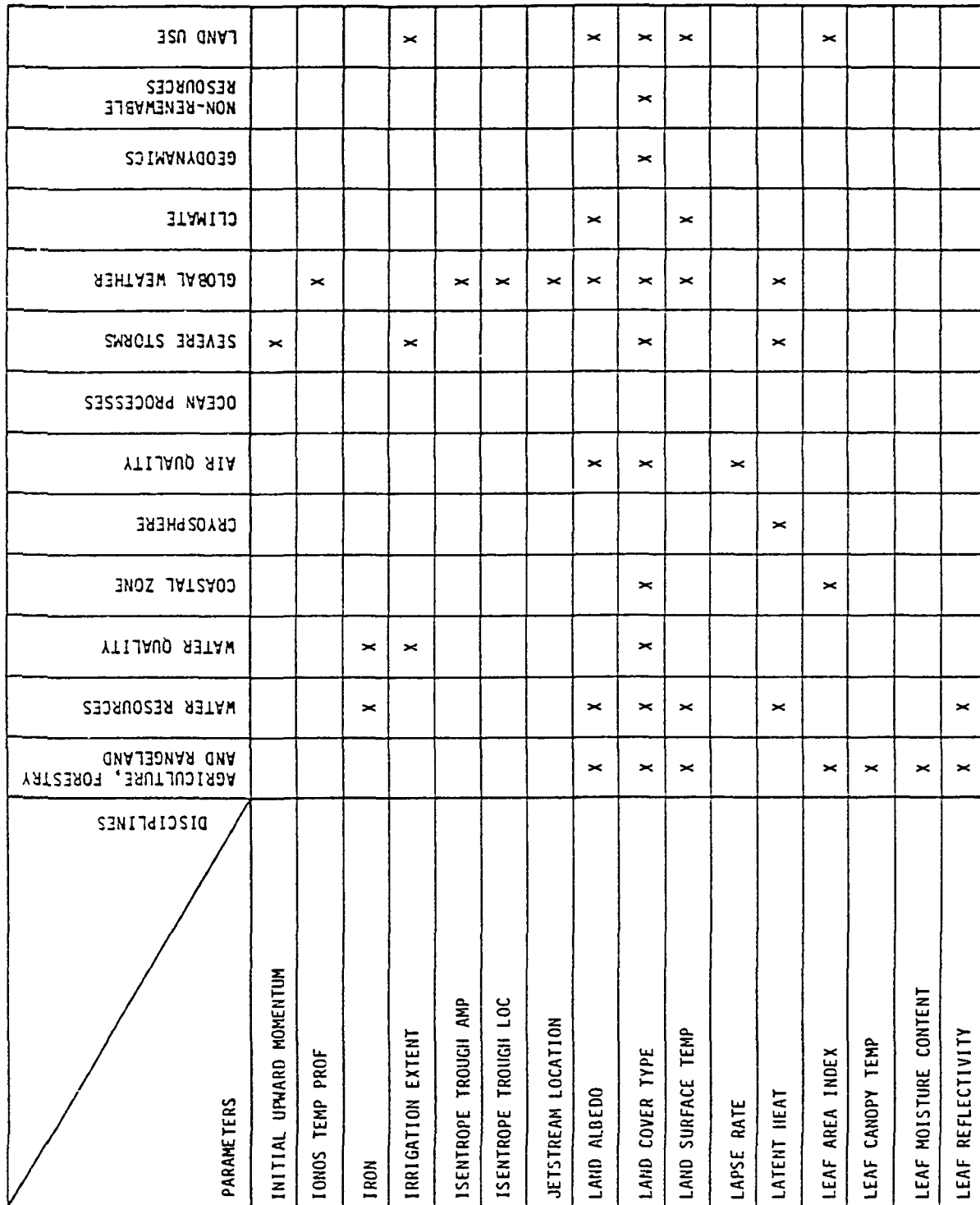
Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
ICE INTERNAL PROPERTIES						X								
ICE LEAD FRACTIONAL AREA						X				X				
ICE LEAD LOCATION/SIZING						X								
ICE LEAD ORIENTATION			X			X								
ICE MOVEMENT						X					X			
ICE SALINITY								X						
ICE SHEET BOUNDARY						X								
ICE SHEET LOCATION											X			
ICE SHEET THICKNESS						X								
ICE STRAIN RATE						X								
ICE SURFACE ELEVATION						X								
ICE SURFACE ELEVATION CHANGE						X								
ICE SURFACE FEATURES									X					
ICE SURFACE ROUGHNESS						X								
ICE SURFACE TEMP						X								
ICE THICKNESS			X			X		X		X				X

Table 4.2.1.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS		AGRICULTURE, FORESTRY AND RANGELAND											WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
DISCIPLINES																								
ICE TYPE																								
ICE/SNOW ALBEDO																								
ICE/SNOW EXTENT																								
ICE/SNOW FRACTION																								
ICE/SNOW MELT																								
ICE/SNOW SUBLIMATION RATE																								
ICE/SNOW SURFACE TEMP																								
ICE/SNOW THICKNESS																								
ICEBERG DEFORMATION RATE																								
ICEBERG LOCATION																								
ICEBERG SIZE																								
ICEBERG VOLUME DISCHARGE																								
INDUSTRY CENTER																								
INFESTATION EXTENT																								
INFESTIOUS AGENTS																								
INFRARED RADIATION																								

Table 4.2.1. Commonality of Parameters by Discipline (cont.)



PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
LI							X							
LIGHTNING DENSITY									X					
LIGHTNING DURATION									X	X				
LIGHTNING FREQUENCY									X	X				
LIGHTNING LOCATION									X	X				
LIGHTNING SPECTRAL RANGE									X					
LINEAMENTS					X							X	X	
LOCATION OF JET STREAM									X					
LOCATION OF SQUALL LINE									X					
LONGWAVE RADIATION							X		X		X			
LOWER TROP MOIST GRADIENT									X					
MACROPHYTE DENSITY			X	X										
MACROPHYTE TYPE			X	X										
MAGMA TRANSPORT										X				
MAGNETIC FIELD STRENGTH										X		X	X	
MAGNETIC PERTURBATIONS												X		

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
MAIN MAGNETIC FIELD												X		
MANGANESE			X	X										
MARINE GEIOD								X		X				
MAX OVERSHOOTING HEIGHT									X					
MAXIMUM WIND SPEED									X	X				
METAL CONCEN				X			X	X						
METAL CONCENT PROF														X
METAL TYPE			X	X				X						
MG							X							
MGO							X							
MINERAL LOCATION			X											X
MINERAL SUBSTANCES			X										X	
MINING/DRILLING LAND USE														X
MIXING CEILING							X							
MIXING RATIO PROF									X					
MOISTURE CONVERGENCE									X					

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
MOISTURE TONGUE								X					
NA						X							
NA, MG, CA, FE, AL, NI, R, LI, NAO, MGO									X				
NAO						X							
NATURAL POLLUTANTS			X			X							
NET RADIATION		X				X			X	X			
NEUTRAL DENSITY									X				
NH03						X							
NH3						X			X				
NI						X							
NI TRATES						X							
NITROGEN		X	X			X							
NO						X			X				
NON-SOIL RESIDUALS	X	X	X										
NOX						X				X			
NO2						X			X				

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
NUTRIENTS CONCENT																							
N20																			X				
N205																							
0																			X				
OCEAN CURRENT													X	X		X			X	X			
OCEAN CURRENT BOUNDARY												X											
OCEAN CURRENT DIRECTION											X												
OCEAN DISEASE VECTOR EXTENT																X							
OCEAN DISEASE VECTOR TYPE																X							
OCEAN MERIDIONAL HEAT FLUX																							
OCEAN MIXING LAYER																							
OCEAN SUBSURFACE TEMP																							
OCEAN SURFACE CURRENT																			X				
OCEAN SURFACE CURRENT AMP													X	X	X	X							X
OCEAN SURFACE CURRENT DIR													X	X	X	X							X
OCEAN SURFACE CURRENT LOC													X	X	X	X							X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
OCEAN SURFACE PRESSURE											X	X				X							
OCEAN SURFACE ROUGHNESS											X		X				X						
OCEAN SURFACE VELOCITY PROF											X	X				X							
OCEAN SURFACE WIND DIR													X			X							X
OCEAN SURFACE WIND LOC																X							
OCEAN SURFACE WIND SPEED											X	X		X		X							X
OCEAN TEMP PROF											X		X			X							
OCEAN TOPOGRAPHY																							
OCEAN WAVE AMP													X			X							X
OCEAN WAVE DIR													X			X							
OCEAN WAVE FORCE													X										
OCEAN WAVE HEIGHT											X	X	X			X							X
OCEAN WAVE LENGTH													X			X							
OCEAN WAVE LENGTH AMP											X	X	X			X							
OCEAN WAVE LENGTH DIR											X	X	X			X							
OCEAN WAVE PERIOD																							

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS
OCEAN WAVE SPECTRA							X				
OCEAN WAVE SPEED							X				
OCEAN WIND STRESS										X	
OCEANIC MERIDIONAL HEAT FLUX						X					
OH						X			X		
OIL DENSITY			X								
OIL DISTRIBUTION			X								
OIL PLATFORM LOCATION					X						
OIL THICKNESS			X								
ORGANIC CARBON IN WATER		X	X								
ORGANIC MATERIALS	X	X	X			X					X
OVERSHOOTING CYCLE								X			
OXYGEN		X	X							X	
OZONE						X			X	X	
OZONE DISTRIB						X					
OZONE PROF						X				X	

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	NON-RENEWABLE RESOURCES
PARTICULATES			X	X		X					
PB						X					
PEAK CURRENTS								X			
PESTICIDE POLLUTANT EXTENT			X				X				X
PESTICIDE POLLUTANT TYPE			X				X				X
PETROLEUM POLLUTANT EXTENT			X				X				X
PETROLEUM POLLUTANT THICKNESS			X				X				X
PETROLEUM POLLUTANT TYPE			X				X				X
PH-BALANCE		X	X				X			X	X
PHOSPHORUS		X	X								
PHYTOPLANKTON EXTENT			X				X				
PHYTOPLANKTON LEVEL		X	X	X		X					
PLANT AREAL EXTENT	X	X									X
PLANT CONDITION	X										X
PLANT DENSITY	X	X		X		X					X
PLANT DENSITY	X	X		X		X					X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
PLANT DISEASE EXTENT		X												X
PLANT DISEASE TYPE		X												X
PLANT GROWTH RATE		X												X
PLANT GROWTH STAGE		X	X											X
PLANT INFESTATION EXTENT		X	X											
PLANT TYPE		X	X		X		X		X				X	X
PLANT-WATER STRESS														
PLATE MOTION												X		
POINT SOURCE POSITION				X			X							
POLAR MOTION												X		
POLAR POSITION						X						X		
POLLEN TYPE CONCEN											X			
POLLUTANT CONCEN			X	X		X	X				X			
POLLUTANT DISPERSION				X										
POLLUTANT LOCATION				X										
POLLUTANT TYPE			X	X	X	X	X							

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND												WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE			
	POPULATION DENSITY												X												X		
PRECIP AMOUNT	X												X	X		X			X	X	X					X	
PRECIP DURATION	X												X							X	X						
PRECIP EXTENT	X												X			X			X		X	X				X	
PRECIP OVER LAND																						X					
PRECIP OVER SEA																						X					
PRECIP RATE	X												X			X			X	X	X	X				X	
PRECIP TYPE	X															X			X	X	X	X	X			X	
PRECIP WATER PROF	X												X						X	X	X	X	X			X	
PRECIP WATER VAPOR													X						X	X							
R																											
RADIATION BUDGET	X																										
RADIOACTIVE NUCLIDE EXTENT																											X
RADIOACTIVE NUCLIDE STRENGTH																											X
RADIOACTIVE NUCLIDE TYPE																											X
RADIOACTIVE STRENGTH																											

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS
RADIOACTIVE WASTE EXTENT			X				X				
RADIOACTIVE WASTE STRENGTH			X				X				
RADIOACTIVE WASTE TYPE		X	X				X				
RELATIVE HUMIDITY	X					X		X	X		
RELATIVE VORTICITY								X			
RESCUE CENTER								X			
RIDGING DENSITY				X							
RIDGING HEIGHT				X							
RIDGING ORIENTATION				X							
RISE TIME								X			
ROCK ALTERATION		X								X	
ROCK FORMATION		X									X
ROCK TYPE	X	X	X								X
ROTATIONAL PERIOD											X
RUNOFF RATE		X		X							
RUNOFF VOLUME		X		X						X	

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
SALINITY	X	X	X	X	X		X		X	X		X
SATURATION OF VADOSE ZONE		X	X						X			X
SEA ICE DRIFT RATE							X					
SEA ICE EXTENT							X					
SEA ICE THICKNESS					X							
SEA LEVEL HEIGHT							X		X			
SEA LEVEL PRESSURE							X	X				
SEA STATE							X					
SEA SURF REFLECTIVITY				X								
SEA SURFACE PRESSURE										X		
SEA SURFACE TEMP		X	X	X	X		X		X	X		X
SEDIMENT		X	X	X						X		
SEDIMENT LOAD				X								
SEDIMENT TRANSPORT AMP							X		X			X
SEDIMENT TRANSPORT DIR			X				X		X			X
SEDIMENT TRANSPORT EXTENT							X					X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
SEDIMENT TRANSPORT LOC							X					X
SEDIMENTATION RATE		X	X				X					X
SEISMICITY				X			X				X	
SENSIBLE HEAT FLUX					X	X	X		X			
SEVERE STORM LOC		X						X				
SEWAGE WASTES		X	X									
SHIP DENSITY					X							
SHIP LOCATION				X	X		X	X		X		
SHIP ROUTE								X				
SHIP SIZE			X				X					
SHOAL/SHOORELINE MOVEMENT				X			X		X			
SHORTWAVE RADIATION								X				
SKIN DEPTH			X									
SLOPE, RELIEF	X	X		X							X	X
SNOW COVER		X			X					X		
SNOW DENSITY		X			X							

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
SNOW DEPTH		X			X				X			X
SNOW SURFACE TEMP					X							
SNOW/ICE EXTENT												X
SNOW/WATER CONTENT					X							
SNOW/WATER EQUIVALENT		X			X							
SOIL CHEMISTRY	X											X
SOIL CONDITION	X											
SOIL CONSTITUENTS	X											
SOIL DENSITY		X										
SOIL GRANULARITY	X											X
SOIL MOISTURE	X	X	X		X			X	X	X		X
SOIL ORGANIC CONTENT	X											X
SOIL PERMEABILITY	X	X				X						X
SOIL POROSITY	X	X										X
SOIL PROPERTIES	X											X
SOIL TEMP	X	X								X		

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
SOIL TEMP PROF			X											
SOIL TEXTURE		X												
SOIL TYPE		X	X						X				X	
SOIL/ROCK COMPOSITION		X	X											X
SOLAR CONSTANT			X				X			X	X			
SOLAR FLUX			X	X			X			X	X			
SOLID EARTH TIDAL ACCEL												X		
SOLID EARTH TIDAL DISPL												X		
SOLID WASTE EXTENT														X
SOLID WASTE IDENTIFICATION														X
SO2							X			X	X			
SPECIAL THERMAL SOURCES										X				
SPECIES IDENTIFICATION						X								
STANDING WATER LOCATION					X									
STORM DURATION									X	X				
STORM EXTENT									X	X				

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
STORM INTENSITY			X						X					
STORM LOCATION								X	X					
STORM PATH									X					
STORM TYPE									X	X				
STRAIN RATES						X						X		
STRATA ATTITUDE												X	X	
STRATOPAUSE							X							
STRESS, STRAIN												X		
STROKE DURATION														
STROKE RATE									X					
STROKE TYPE									X					
STRUCTURAL ANOMALIES			X										X	
STRUCTURAL FEATURES					X							X	X	
SUBLIMATION RATE										X				
SUBSURFACE SOIL MOISTURE			X											
SULFATES							X							

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
SULFUR		X				X							
SULFUR COMPOUNDS						X							
SULFUR OXIDES						X							
SUPCOOLED WATERDROP CONCEN									X				
SURFACE AIR TEMP	X	X		X			X		X	X			X
SURFACE CURRENT PATTERN				X									
SURFACE MELTING									X				
SURFACE PRESSURE					X			X	X	X			
SURFACE ROUGHNESS	X	X				X						X	
SURFACE TEMP					X	X		X	X	X		X	
SURFACE TEMP PROF				X									
SURFACE WATER TEMP			X						X				
SURFACE WIND DIR			X					X	X				
SURFACE WIND SPEED													
SUSPENDED PARTICLE CONCEN			X	X			X						
SUSPENDED SEDIMENT CONCEN													X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	AGRICULTURE, FORESTRY AND RANGELAND											LAND USE
	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	
SUSPENDED SEDIMENT LOAD			X									
TEMP ANOMALIES									X			
TEMP LAPSE RATE							X					
TEMP PROF							X					
TERRAIN TYPE			X		X		X			X	X	X
THERMAL ANOMALIES								X			X	
THERMAL PROPERTIES	X										X	
THERMOCLINE DEPTH					X	X		X				
TIDAL EFFECTS			X									X
TIDAL PERIOD						X	X					
TIDAL PROPERTIES			X			X						X
TIDAL RANGE	X		X				X					
TOPOGRAPHIC FEATURES		X	X		X	X	X	X	X	X	X	X
TOPSOIL DEPTH	X											X
TOPSOIL EXTENT												
TOPSOIL TRANSPORT		X						X				X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
TOTAL OZONE						X						
TRAPPED PARTICLE ENERGY									X			
TREE CROWN DENSITY	X											
TRI-ATOMIC GASES						X						
TROPOPAUSE						X						
TURBIDITY		X	X	X			X					X
UNDULATION SIZE											X	
UNIVERSAL TIME											X	
UPBURST								X				
UPPER OCEAN HEAT STORAGE							X		X			
UPPER OCEAN LAYER TEMP										X		
UPWELLING EXTENT							X		X			X
UPWELLING LOCATION			X				X		X			X
UPBAN LAND USE												X
VECTOR FLOW FIELD							X					
VEGETATION CONDITION	X	X						X				X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES											LAND USE
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES
VEGETATIVE COVER TYPE	X	X		X							X	X
VEGETATIVE DAMAGE EXTENT	X											X
VEGETATIVE DAMAGE TYPE	X											X
VEGETATIVE EXTENT	X	X					X			X		
VEGETATIVE MOISTURE		X										
VEGETATIVE PATTERNS	X	X	X	X							X	X
VEGETATIVE TYPE	X	X		X			X					X
VERT HUMIDITY PROF		X			X	X	X	X	X	X		
VERT LAND TEMP PROF	X											
VERT OCEAN TEMP PROF							X					
VERT PRESSURE PROF						X		X	X	X		
VERT TEMP PROF	X	X				X	X	X	X	X		X
VERT VELOCITY						X		X				
VERT WATER TEMP PROF			X									X
VERT WIND CONVECT DUCTS LOC	X					X	X		X	X		X
VERT WIND CONVECT DUCTS SIZE	X					X	X		X	X		X

Table 4.2.1.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS	DISCIPLINES										
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS
VERT WIND PROF			X			X	X	X	X	X	
VERT WIND PROF AMP	X						X				X
VERT WIND PROF DIR	X						X				X
VERT WIND SHEAR				X			X	X	X		
VIRTUAL TEMP								X			
VISIBILITY					X	X	X		X	X	
VORTICITY						X					
WATER ALBEDO		X	X	X		X	X		X	X	X
WATER BOTTOM PROF		X									
WATER CLARITY			X								
WATER CONTENT		X		X						X	
WATER DENSITY		X									
WATER DEPTH		X	X	X							X
WATER DEPTH PROF				X							
WATER EQUIVALENT					X				X		X
WATER EXTENT	X	X	X						X		X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)

PARAMETERS DISCIPLINES	DISCIPLINES												
	AGRICULTURE, FORESTRY AND RANGELAND	WATER RESOURCES	WATER QUALITY	COASTAL ZONE	CRYOSPHERE	AIR QUALITY	OCEAN PROCESSES	SEVERE STORMS	GLOBAL WEATHER	CLIMATE	GEODYNAMICS	NON-RENEWABLE RESOURCES	LAND USE
WATER FLOW RATE		X	X										
WATER LEVEL		X								X			
WATER LOCATION	X			X								X	X
WATER MASS BOUNDARIES				X									
WATER QUALITY		X											
WATER TABLE DEPTH		X							X				X
WATER TEMP			X	X									
WATER TLMF PROF			X	X									
WATER TYPE													X
WATER VAPOR								X					
WATER VAPOR CONTENT								X	X				
WATER VAPOR PROF										X			
WAVE FORM								X					
WAVE SPECTRA									X				
WET BIOMASS		X	X	X									
WETLAND EXTENT	X	X	X	X					X				X

Table 4.2.1. Commonality of Parameters by Discipline (cont.)



disciplines use the same input parameter is not sufficient evidence that they could use the same data sets. Below is a brief description or definition of the parameter characteristic used in this study.

Accuracy

Accuracy is a measure of how close the observed value of a parameter comes to the "true" value. If a measure has small systematic errors it is said to have high accuracy. The data sheets show both desired and base accuracy. Where desired accuracy is the optimum accuracy the user would like to have for a given application. Based accuracy is the minimum accuracy the user feels is necessary in order to obtain useable results.

Spatial Resolution

Spatial resolution is the smallest resolvable unit of space over which a change in the parameter value can be determined; the area or the size of the grid cell over which data was averaged to compute a parameter value. The data sheets separates resolution into horizontal and vertical resolution. Each of these is then subdivided into a high and low value. The low value represents what the user would like to have, while the high value is the minimum resolution necessary in order to obtain usable results from the investigation.

Freshness

Freshness is a measure of the length of time between acquisition of the sensor measurement/observation and delivery of the data product to the user(s). In some applications freshness is very critical while in other applications it is of minor importance. For example, parameters such as cloud movement, wind speed, precipitation, storm path, etc. when being used for severe storm warning and prediction are needed in near real time. However the same parameters could be used to study cloud physics in which case freshness does not matter.

Frequency of Update

Frequency of update indicates how often the measurement/observation must be repeated. In many instances this is strictly a function of the time



dependence of the parameter. For example, rock type does not change with time therefore once an identification is made it will probably not be repeated unless a better sensor is developed. Plant disease extent or petroleum pollutant extent would need to be monitored frequently. In other cases the required frequency of update is a function of the application. Precipitation rate and amount information are needed more often for flash flood warning than they are for studies of global water balance.

Duration

Duration refers to the time span over which a series of observations are required. For example, storm intensity and storm movement parameters would be needed for the duration of the storm. Measurement of plate motion may be required over a period of several decades.

Observation Time

Observation time refers to the time of day or season of the year when a measurement should be taken. For example, topographic features with low to moderate relief can best be identified in images taken at times of low sun angle. Hardwood species identification is easier in the fall while other plant types are easier to identify during the summer.

Areal Coverage

Areal coverage indicates the size of the area over which observations are required. For example, many climate studies require global coverage while assessment of tornado caused storm damage would require local observations over only a few square kilometers.

4.4 PARAMETERS VS. APPLICATIONS

Table 4.4.1 shows a printout from the data base. Parameters are listed in alphabetic order. Each is accompanied with a reference code. This reference code can be used to determine the author and title of the source document from which information has been extracted. The third column lists the discipline that uses the parameters. The four column gives the application. A parameter may appear more than once under an application. If



the reference numbers are different, information about that parameters' characteristics has been taken from more than one source. The other possibility is that the application has been divided into two or more subapplications that use the parameter. (Subapplications are not shown here due to page size limitations).

If more information is desired the user can query the database. If an interaction terminal is not available the user should select the appropriate discipline tree and locate the application on the tree. This will give a tree number which can be used to find the appropriate datasheets contained in part II of this document. The datasheets are in numeric order by tree number within each discipline.

COMMONALITY DATA BASE

PARAMETER		SELECTION 4:		APPLICATION TITLE	
DISCIPLINE TITLE		REFER		DISCIPLINE TITLE	
ABIOTIC STRESS	L-0	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING		
ABIOTIC STRESS	L-167	AGRICULTURE	RANGELAND CONDITION MONITORING		
ABIOTIC STRESS	A-62	AGRICULTURE	ABIOTIC STRESSES ON FORESTS		
ABIOTIC STRESS	L-167	AGRICULTURE	ACREAGE INVENTORY		
ABIOTIC STRESS	L-167	AGRICULTURE	AGRONOMY MANAGEMENT		
ABIOTIC STRESS	L-160	AGRICULTURE	AGRONOMY RESEARCH		
ABIOTIC STRESS	A-62	AGRICULTURE	FOREST CONDITION MONITORING		
ABIOTIC STRESS	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT		
ABIOTIC STRESS	L-167	AGRICULTURE	GRAZING LANDS MANAGEMENT		
ABIOTIC STRESS	L-167	AGRICULTURE	FOREST MANAGEMENT		
ABIOTIC STRESS	L-167	AGRICULTURE	FOREST RESEARCH		
ABIOTIC STRESS	L-160	AGRICULTURE	EVAPOTRANSPIRATION MODELING		
ABIOTIC STRESS	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING		
ABIOTIC STRESS EXTENT	A-62	AGRICULTURE	ABIOTIC STRESSES ON FORESTS		
ABIOTIC STRESS EXTENT	A-74	AGRICULTURE	ABIOTIC STRESSES ON CROPS		
ABIOTIC STRESS EXTENT	A-65	AGRICULTURE	ABIOTIC STRESSES ON CROPS		
ABIOTIC STRESS EXTENT	L-160	AGRICULTURE	AGRONOMY RESEARCH		
ABIOTIC STRESS EXTENT	A-62	AGRICULTURE	FOREST CONDITION MONITORING		
ABIOTIC STRESS EXTENT	A-72	AGRICULTURE	ABIOTIC STRESSES ON FORESTS		
AEROSOL PHYSICAL SIZE	L-107	AIR QUALITY	POLLUTION MODELING		
AEROSOL PHYSICAL SIZE	L-107	AIR QUALITY	EFFECTIVENESS OF POLLUTION CONTROL		
AEROSOLS	L-1	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
AEROSOLS	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
AEROSOLS	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
AEROSOLS	L-103	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
AEROSOLS	L-1	AIR QUALITY	STRATOSPHERE/TROPOSPHERE INTERFACE		
AEROSOLS	L-1	AIR QUALITY	ATMOSPHERE RADIATIVE PROPERTY ASSESSMENT		
AEROSOLS	L-171	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT		
AEROSOLS	L-161	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT		
AEROSOLS	L-107	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT		
AEROSOLS	L-12	AIR QUALITY	EFFECTIVENESS OF POLLUTION CONTROL		
AEROSOLS	L-32	AIR QUALITY	TROPOSPHERIC AEROSOLS		
AEROSOLS	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE		
AEROSOLS	L-171	GLOBAL WEATHER	HUMAN HEALTH HAZARDS		
AEROSOLS	L-171	GLOBAL WEATHER	AIR QUALITY		
AEROSOLS	L-169	GLOBAL WEATHER	AIR QUALITY		
AEROSOLS	L-77	CLIMATE	UPPER ATMOSPHERIC RESEARCH		
AEROSOLS	L-26	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS		
AIR INSTABILITY	L-52	AIR QUALITY	RADIATION AND THE GLOBAL ENERGY BALANCE		
AIR INSTABILITY	L-0	AIR QUALITY	POLLUTION MODELING		
AIR INSTABILITY	L-31	AIR QUALITY	THERMAL POLLUTANTS/TRACKING		
			ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT		

Table 4.4.1 Commonality of Parameters by Application

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
AIR INSTABILITY	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
AIR INSTABILITY	L-73	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
AIR INSTABILITY	L-14	SEVERE STORMS	TORNADO PREDICTION & WARNING
AIR INSTABILITY	L-15	SEVERE STORMS	CROP FREEZE POTENTIAL ASSESSMENT
AIR INSTABILITY	L-0	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
AIR INSTABILITY	L-74	SEVERE STORMS	AIRCRAFT ROUTING CONSIDERATION
AIR INSTABILITY	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
AIR INSTABILITY	L-0	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
AIR QUALITY INDEX	L-0	AIR QUALITY	THERMAL POLLUTANTS/TRACKING
AIR QUALITY INDEX	L-0	AIR QUALITY	HUMAN HEALTH HAZARDS
AIR TEMP	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
AIR TEMP	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
AIR TEMP	L-0	WATER RESOURCES	PRECIPITATION
AIR TEMP	L-1	CRYOSPHERE	ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT
AIR TEMP	L-51	AIR QUALITY	CO2 IMPACTS
AIR TEMP	L-0	AIR QUALITY	CO2 IMPACTS
AIR TEMP	L-0	SEVERE STORMS	TROPOSPHERIC AEROSOLS
AIR TEMP	L-73	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
AIR TEMP	L-0	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
AIR TEMP	L-15	SEVERE STORMS	CROP FREEZE POTENTIAL ASSESSMENT
AIR TEMP	L-1	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
AIR TEMP	L-11	SEVERE STORMS	DETERMINATION OF SEVERE STORM INDICES
AIR TEMP	L-1	SEVERE STORMS	STORM/ENVIRONMENT INTERACTION ASSESSMENT
AIR TEMP	L-71	GLOBAL WEATHER	FURST FIRE WEATHER
AIR TEMP	L-72	GLOBAL WEATHER	FURST FIRE WEATHER
AIR TEMP	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
AIR TEMP	L-1	CLIMATE	ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT
AIR TEMP	L-1	CLIMATE	GENERAL CIRCULATION MODEL
AIR TEMP	L-78	CLIMATE	ENERGY DEMAND
AIR TEMP	L-51	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
AIR TEMP	L-0	CLIMATE	HUMAN HEALTH
AIR/SEA TEMP DIFF	L-200	OCEAN PROCESSES	OCEAN CLIMATE
AIR/SEA TEMP DIFF	L-200	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
AIRCRAFT LOCATION	L-0	SEVERE STORMS	WARNING AND EVACUATION SCHEMES
AIRCRAFT ROUTE	L-0	SEVERE STORMS	WIND DAMAGE ASSESSMENT
AL	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4)

PARAMETER	DISCIPLINE TITLE	APPLICATION TITLE
AREA DETERMINATION	SEVERE STORMS	WIND DAMAGE ASSESSMENT
ASH & SAND ACCUM RATE	CLIMATE	HISTORICAL DATA ANALYSIS
ASPECT	LAND USE	RESOURCE IMPACT PLANNING
ASPECT	AGRICULTURE	VEGETATION CLASSIFICATION
ASPECT	AGRICULTURE	RANGELANDS INVENTORY
ASPECT	AGRICULTURE	RANGELAND CONDITION MONITORING
ASPECT	AGRICULTURE	AGREACE INVENTORY
ASPECT	AGRICULTURE	FOREST CONDITION MONITORING
ASPECT	AGRICULTURE	FOREST INSECT DAMAGE
ASPECT	AGRICULTURE	RANGELAND CLASSIFICATIONS
ASTRONOMICAL/STORM TIDES	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
ASTRONOMICAL/STORM TIDES	WATER RESOURCES	POLLUTANT WATER
ASTRONOMICAL/STORM TIDES	WATER QUALITY	POLLUTION MONITORING
ASTRONOMICAL/STORM TIDES	OCEAN PROCESSES	MARINE GEOLOGY
ASTRONOMICAL/STORM TIDES	OCEAN PROCESSES	LIVING MARINE RESOURCES
ASTRONOMICAL/STORM TIDES	OCEAN PROCESSES	OCEAN ENGINEERING
ASTRONOMICAL/STORM TIDES	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
ASTRONOMICAL/STORM TIDES	OCEAN PROCESSES	OCEAN CONTAMINATION
ASTRONOMICAL/STORM TIDES	SEVERE STORMS	COASTAL FLOODS
ASTRONOMICAL/STORM TIDES	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
ASTRONOMICAL/STORM TIDES	CLIMATE	FISHERY
ASTRONOMICAL/STORM TIDES	CLIMATE	CONSTRUCTION
ATMOSPHERIC DUST CONTENT	AIR QUALITY	IMPACT ON TRAFFIC SAFETY
ATMOSPHERIC DUST CONTENT	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
ATMOSPHERIC MIXING RATE	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
ATMOSPHERIC MIXING RATE	AIR QUALITY	POLLUTION MODELING
ATMOSPHERIC MIXING RATE	AIR QUALITY	OZONE LEVEL DETERMINATION
ATMOSPHERIC PARTICULATES	AIR QUALITY	VOLCANO/FOREST FIRE MONITORING
ATMOSPHERIC PARTICULATES	AIR QUALITY	EFFECTIVENESS OF POLLUTION CONTROL
ATMOSPHERIC TRANSMITTANCE	WATER RESOURCES	WATER TABLES AND GROUND WATER DETECTION
ATMOSPHERIC TRANSMITTANCE	WATER RESOURCES	SOIL MOISTURE STUDIES
ATMOSPHERIC TRANSMITTANCE	AIR QUALITY	EVAPOTRANSPIRATION MODELING
ATMOSPHERIC TRANSMITTANCE	AIR QUALITY	POLLUTION MODELING
ATMOSPHERIC TRANSMITTANCE	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
AUTOMOBILE DENSITY	AIR QUALITY	IMPACT ON TRAFFIC SAFETY

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

PARAMETER		SELECTION 4.		APPLICATION TITLE	
		DISCIPLINE TITLE	REFER		
BACTERIAL SEWAGE EXTENT		OCEAN PROCESSES	L-160		FISH YIELD MANAGEMENT
BACTERIAL SEWAGE EXTENT		OCEAN PROCESSES	L-160		LIVING MARINE RESOURCES
BACTERIAL SEWAGE EXTENT		OCEAN PROCESSES	L-160		OCEAN CONTAMINATION
BACTERIAL SEWAGE LOC		OCEAN PROCESSES	L-160		FISH YIELD MANAGEMENT
BACTERIAL SEWAGE LOC		OCEAN PROCESSES	L-160		LIVING MARINE RESOURCES
BACTERIAL SEWAGE LOC		OCEAN PROCESSES	L-160		OCEAN CONTAMINATION
BASLINE LENGTH		GEODYNAMICS	G-100		GRAVITY FIELD MODELING
BASLINE LENGTH		GEODYNAMICS	G-201		TECTONIC STUDIES
BASLINE LENGTH		GEODYNAMICS	G-201		REGIONAL CRUSTAL DEFORMATION MODELING
BASLINE MEASUREMENT		GEODYNAMICS	G-200		GEODETIC MEASUREMENT OF PLATE MOVEMENT
BASLINE MEASUREMENT		GEODYNAMICS	G-201		GEODETIC MEASUREMENT OF PLATE MOVEMENT
BENTHIC FOSSILS		CLIMATE	L-60		HISTORICAL DATA ANALYSIS
BIOMASS		AGRICULTURE	A-27		YIELD/PRODUCTIVITY STUDIES
BIOMASS		AGRICULTURE	A-5		BIOMASS ESTIMATION
BIOMASS		AGRICULTURE	A-27		RANGELAND PRODUCTIVITY MODELING
BIOMASS		COASTAL ZONE	L-1		COASTAL, ESTUARY AND OCEAN ENGINEERING
BIOMASS		COASTAL ZONE	L-2		COASTAL RESOURCES STUDIES
BOTTOM CUNDITIONS		CRYOSPHERE	L-34		ICEBERG DYNAMICS
BOUNDARY CHANGE		GLOBAL WEATHER	L-29		POLAR EXPERIMENT
BRIGHTNESS TEMP		WATER RESOURCES	L-100		LAKE CLASSIFICATION RESEARCH
BRIGHTNESS TEMP		WATER RESOURCES	L-111		SOIL MOISTURE STUDIES
BRIGHTNESS TEMP		WATER RESOURCES	L-111		ANTECEDENT PRECIP INDEX DETERMINATION
CA		AIR QUALITY	L-160		ATMOSPHERIC COMPOSITION ASSESMENT
CAROTENOIDS		WATER QUALITY	L-117		WATER QUALITY ANALYSIS
CFCLD		CLIMATE	L-77		RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
CFMS CONCEN		AIR QUALITY	L-32		EFFECTS OF AIR POLLUTION ON AGRICULTURE

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SECTION 4,			
PARAMETER	DISCIPLINE TITLE	REFER.	APPLICATION TITLE
CFXCLY	AIR QUALITY	L-171	ATMOSPHERIC COMPOSITION ASSESSMENT
CFXCLY	AIR QUALITY	L-171	ATMOSPHERIC COMPOSITION ASSESSMENT
CFXCLY	AIR QUALITY	L-169	ATMOSPHERIC COMPOSITION ASSESSMENT
CFXCLY	AIR QUALITY	L-32	EFFECTS OF AIR POLLUTION ON AGRICULTURE
CFXCLY	GLOBAL WEATHER	L-171	AIR QUALITY
CFXCLY	GLOBAL WEATHER	L-171	AIR QUALITY
CFXCLY	GLOBAL WEATHER	L-169	UPPER ATMOSPHERIC RESEARCH
CF2CL2	CLIMATE	L-77	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
CHEMICAL	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
CHEMICAL	LAND USE	L-167	LAND USE MANAGEMENT
CHEMICAL	AGRICULTURE	L-160	RANGELAND CONDITION MONITORING
CHEMICAL	AGRICULTURE	L-167	AGRONOMY MANAGEMENT
CHEMICAL	WATER RESOURCES	L-167	POLLUTANT WATER
CHEMICAL	WATER RESOURCES	L-0	MONITORING CONDITIONS OF LAKES
CHEMICAL	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
CHEMICAL	LAND USE	L-167	LAND USE MANAGEMENT
CHEMICAL	AGRICULTURE	L-160	RANGELAND CONDITION MONITORING
CHEMICAL	AGRICULTURE	L-160	AGRONOMY MANAGEMENT
CHEMICAL	WATER RESOURCES	L-167	POLLUTANT WATER
CHEMICAL	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
CHEMICAL	LAND USE	L-167	LAND USE MANAGEMENT
CHEMICAL	AGRICULTURE	L-160	RANGELAND CONDITION MONITORING
CHEMICAL	AGRICULTURE	L-160	AGRONOMY MANAGEMENT
CHEMICAL	WATER RESOURCES	L-167	POLLUTANT WATER
CHEMICAL	LAND USE	L-160	WETLAND MANAGEMENT
CHEMICAL	LAND USE	L-167	SURFACE WATER INVENTORY
CHEMICAL	OCEAN PROCESSES	L-160	FISH YIELD MANAGEMENT
CHEMICAL	OCEAN PROCESSES	L-160	LIVING MARINE RESOURCES
CHEMICAL	OCEAN PROCESSES	L-160	OCEAN CONTAMINATION
CHEMICAL	LAND USE	L-160	WETLAND MANAGEMENT
CHEMICAL	LAND USE	L-167	SURFACE WATER INVENTORY
CHEMICAL	OCEAN PROCESSES	L-160	FISH YIELD MANAGEMENT
CHEMICAL	OCEAN PROCESSES	L-160	LIVING MARINE RESOURCES
CHEMICAL	OCEAN PROCESSES	L-160	OCEAN CONTAMINATION
CHEMICAL	LAND USE	L-160	WETLAND MANAGEMENT
CHEMICAL	LAND USE	L-167	SURFACE WATER INVENTORY
CHEMICAL	WATER RESOURCES	L-167	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
CHEMICAL	WATER RESOURCES	L-81	INDUSTRIAL USES

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

		SELECTION 4,			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE		
CHEMICAL POLLUTANT TYPE	L-167	WATER RESOURCES	POLLUTANT WATER		
CHEMICAL POLLUTANT TYPE	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT		
CHEMICAL POLLUTANT TYPE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES		
			OCEAN CONTAMINATION		
CHLORIDES	L-102	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES		
CHLOROPHYLL	Z-2	LAND USE	ECOSYSTEM MAPPING		
CHLOROPHYLL	Z-2	LAND USE	WETLAND MANAGEMENT		
CHLOROPHYLL	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES		
CHLOROPHYLL	A-6	AGRICULTURE	YIELD MODELING		
CHLOROPHYLL	L-100	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY		
CHLOROPHYLL	L-162	WATER RESOURCES	POLLUTANT WATER		
CHLOROPHYLL	L-167	WATER RESOURCES	POLLUTANT WATER		
CHLOROPHYLL	L-0	WATER QUALITY	MONITORING CONDITIONS OF LAKES		
CHLOROPHYLL	L-162	WATER QUALITY	POLLUTION MONITORING		
CHLOROPHYLL	L-167	WATER QUALITY	POLLUTION MONITORING		
CHLOROPHYLL	L-1	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES		
CHLOROPHYLL	L-162	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES		
CHLOROPHYLL	L-104	WATER QUALITY	LASER TECHNOLOGY FOR SURFACE MONITORING		
CHLOROPHYLL	L-162	WATER QUALITY	LASER TECHNOLOGY FOR SURFACE MONITORING		
CHLOROPHYLL	L-117	WATER QUALITY	WATER QUALITY ANALYSIS		
CHLOROPHYLL	Z-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING		
CHLOROPHYLL	Z-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING		
CHLOROPHYLL	Z-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING		
CHLOROPHYLL	Z-1	COASTAL ZONE	COASTAL RESOURCES STUDIES		
CHLOROPHYLL	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES		
CHLOROPHYLL	Z-2	COASTAL ZONE	COASTAL RESOURCES STUDIES		
CHLOROPHYLL	L-9	COASTAL ZONE	COASTAL RESOURCES STUDIES		
CHLOROPHYLL	L-200	OCEAN PROCESSES	OCEAN BIOLOGY		
CHLOROPHYLL	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES		
CHLOROPHYLL	L-162	OCEAN PROCESSES	OCEAN CONTAMINATION		
CHLOROPHYLL	L-162	OCEAN PROCESSES	OCEAN CONTAMINATION		
CHL2CL2	L-33	AIR QUALITY	IMPACT ON CLIMATE		
CH4	L-1	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
CH4	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
CH4	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT		
CH4	L-1	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT		
CH4	L-171	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT		
CH4	L-33	AIR QUALITY	IMPACT ON CLIMATE		
CH4	L-171	GLOBAL WEATHER	AIR QUALITY		
CH4	L-171	GLOBAL WEATHER	AIR QUALITY		
CH4	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH		

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4:

PARAMETER	REFER.	DISCIPLINE TITLE	APPLICATION TITLE
CLOUD COVER	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
CLOUD COVER	L-1	GLOBAL WEATHER	ATMOSPHERIC WATER BALANCE ASSESSMENT
CLOUD COVER	L-200	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
CLOUD COVER	L-1	GLOBAL WEATHER	WEATHER RESEARCH FOR FUTURE APPLICATIONS
CLOUD COVER	L-161	CLIMATE	AGRICULTURE
CLOUD COVER	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
CLOUD COVER	L-163	CLIMATE	MILITARY OPERATION PLANNING
CLOUD COVER	L-0	CLIMATE	CONSTRUCTION
CLOUD COVER	L-51	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLOUD COVER	L-78	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
CLOUD COVER	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
CLOUD COVER	L-78	CLIMATE	TRANSPORTATION
CLOUD COVER	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLOUD COVER	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLOUD COVER	L-24	SEVERE STORMS	SEVERE STORM DETECTION
CLOUD DIURNAL VARIATION	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLOUD GROWTH RATE	L-0	SEVERE STORMS	RESEARCH IONOSPHERIC WAVES ASSOC WITH HAIL & TORNADOES
CLOUD H2O CONTENT	L-1	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
CLOUD LATENT HEAT RELEASE	L-163	SEVERE STORMS	HURRICANE PREDICTION/WARNING
CLOUD LATENT HEAT RELEASE	L-0	SEVERE STORMS	DECREASING HAIL
CLOUD LATENT HEAT RELEASE	L-160	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD LATENT HEAT RELEASE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
CLOUD LEVEL	L-0	WATER RESOURCES	PRECIPITATION
CLOUD LEVEL	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
CLOUD LEVEL	L-163	SEVERE STORMS	HURRICANE PREDICTION/WARNING
CLOUD LEVEL	L-1	SEVERE STORMS	ASSESS OF SEVERE STORM STRUCTURE
CLOUD LEVEL	L-0	SEVERE STORMS	CLOUD PHYSICS
CLOUD LEVEL	L-0	SEVERE STORMS	LIGHTNING PHYSICS
CLOUD LEVEL	L-0	SEVERE STORMS	REDUCING INTENSITY OF HURRICANES
CLOUD LEVEL	L-160	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD LEVEL	L-171	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD LEVEL	L-160	GLOBAL WEATHER	AIR QUALITY
CLOUD LEVEL	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
CLOUD LEVEL	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
CLOUD LEVEL	L-70	GLOBAL WEATHER	WEATHER MODIFICATION
CLOUD LEVEL	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
CLOUD LEVEL	L-163	CLIMATE	MILITARY OPERATION PLANNING
CLOUD LEVEL	L-78	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

		SELECTION 4.			
		DISCIPLINE TITLE	APPLICATION TITLE		
		CLIMATE	TRANSPORTATION		
CLOUD LEVEL	PARAMETER	REFER.			
CLOUD MOVEMENT		L-78			
CLOUD MOVEMENT		L-0	WIND DAMAGE ASSESSMENT		
		L-72	FOREST FIRE WEATHER		
CLOUD PARTICLE SIZE DISTRIB		L-0	PRECIPITATION		
CLOUD PARTICLE SIZE DISTRIB		L-160	COASTAL OCEAN CONDITION FORECASTING		
CLOUD PARTICLE SIZE DISTRIB		L-165	HURRICANE PREDICTION/WARNING		
CLOUD PARTICLE SIZE DISTRIB		L-0	DECREASING HAIL		
CLOUD PARTICLE SIZE DISTRIB		L-160	WEATHER FORECASTS		
CLOUD PARTICLE SIZE DISTRIB		L-160	WEATHER FORECASTS		
CLOUD PARTICLE SIZE DISTRIB		L-165	SEVERE STORM WARNINGS AND FORECASTS		
CLOUD PARTICLE SIZE DISTRIB		L-160	AIR QUALITY		
CLOUD PARTICLE SIZE DISTRIB		L-0	GLOBAL WATER BALANCE		
CLOUD PARTICLE SIZE DISTRIB		L-1	ATMOSPHERIC WATER BALANCE ASSESSMENT		
CLOUD PHASE		L-28	ANTECEDENT CONDITION DETERMINATIONS		
CLOUD TEMP		L-155	OCEAN ROLE IN THE CLIMATIC CHANGE		
CLOUD TEMP		L-155	MONSOON EXPERIMENT		
CLOUD TEMP		L-155	OCEAN ATMOSPHERIC INTERACTION		
CLOUD THICKNESS		L-51	CO2 IMPACTS		
CLOUD THICKNESS		L-12	TROPOSPHERIC AEROSOLS		
CLOUD THICKNESS		L-160	COASTAL OCEAN CONDITION FORECASTING		
CLOUD THICKNESS		L-165	HURRICANE PREDICTION/WARNING		
CLOUD THICKNESS		L-0	ASSESS OF SEVERE STORM STRUCTURE		
CLOUD THICKNESS		L-0	CLOUD PHYSICS		
CLOUD THICKNESS		L-0	LIGHTNING PHYSICS		
CLOUD THICKNESS		L-160	REDUCING INTENSITY OF HURRICANES		
CLOUD THICKNESS		L-160	WEATHER FORECASTS		
CLOUD THICKNESS		L-165	SEVERE STORM WARNINGS AND FORECASTS		
CLOUD THICKNESS		L-1	ATMOSPHERIC WATER BALANCE ASSESSMENT		
CLOUD THICKNESS		L-169	UPPER ATMOSPHERIC RESEARCH		
CLOUD THICKNESS		L-78	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS		
CLOUD TOP HEIGHT		L-200	OCEAN CLIMATE		
CLOUD TOP HEIGHT		L-28	HURRICANE PREDICTION/WARNING		
CLOUD TOP HEIGHT		L-28	ANTECEDENT CONDITION DETERMINATIONS		
CLOUD TOP HEIGHT		L-11	DETERMINATION OF SEVERE STORM INDICES		
CLOUD TOP HEIGHT		L-1	ATMOSPHERIC WATER BALANCE ASSESSMENT		
CLOUD TOP HEIGHT		L-200	OCEAN ATMOSPHERIC INTERACTION		

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4,

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
CLOUD TOP TEMP	L-0	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
CLOUD TOP TEMP	L-0	AIR QUALITY	TROPOSPHERIC AEROSOLS
CLOUD TOP TEMP	L-0	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
CLOUD TOP TEMP	L-165	SEVERE STORMS	HURRICANE PREDICTION/WARNING
CLOUD TOP TEMP	L-0	SEVERE STORMS	RESEARCH TROPOSPHERIC WAVES ASSOC WITH HAIL & TORNADOES
CLOUD TOP TEMP	L-0	SEVERE STORMS	CLOUD PHYSICS
CLOUD TOP TEMP	L-0	GLOBAL WEATHER	DECREASING HAIL
CLOUD TOP TEMP	L-162	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD TOP TEMP	L-160	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD TOP TEMP	L-165	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
CLOUD TOP TEMP	L-160	GLOBAL WEATHER	AIR QUALITY
CLOUD TOP TEMP	L-171	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
CLOUD TOP TEMP	L-1	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
CLOUD TOP TEMP	L-0	CLIMATE	AGRICULTURE
CLOUD TOP TEMP	L-161	CLIMATE	DEFENSE STRATEGIC PLANNING
CLOUD TOP TEMP	L-0	CLIMATE	
CLOUD TYPE	L-0	WATER RESOURCES	PRECIPITATION
CLOUD TYPE	L-75	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
CLOUD TYPE	L-0	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
CLOUD TYPE	L-13	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
CLOUD TYPE	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
CLOUD TYPE	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
CLOUD TYPE	L-0	SEVERE STORMS	LIGHTNING PHYSICS
CLOUD TYPE	L-0	GLOBAL WEATHER	AIRCRAFT ROUTING
CLOUD TYPE	L-70	GLOBAL WEATHER	WEATHER MODIFICATION
CLOUD TYPE	L-78	CLIMATE	TRANSPORTATION
CLOUD/ATMOS ALBEDO	L-0	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
CLOUD/ATMOS ALBEDO	L-103	AIR QUALITY	STRATOSPHERE/TROPOSPHERE INTERFACE
CLOUD/ATMOS ALBEDO	L-103	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
CLOUD/ATMOS ALBEDO	L-12	GLOBAL WEATHER	TROPOSPHERIC AEROSOLS
CLOUD/ATMOS ALBEDO	L-162	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD/ATMOS ALBEDO	L-162	GLOBAL WEATHER	WEATHER FORECASTS
CLOUD/ATMOS ALBEDO	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
CLOUD/ATMOS ALBEDO	L-160	GLOBAL WEATHER	AIR QUALITY
CLOUD/ATMOS ALBEDO	L-1	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
CLOUD/ATMOS ALBEDO	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
CLOUD/ATMOS ALBEDO	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
CLOUD/ATMOS ALBEDO	L-163	CLIMATE	AGRICULTURE
CLOUD/ATMOS ALBEDO	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
CLOUD/ATMOS ALBEDO	L-1	CLIMATE	MILITARY OPERATION PLANNING
CLOUD/ATMOS ALBEDO	L-78	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLOUD/ATMOS ALBEDO	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
CLOUD/ATMOS ALBEDO	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CL2	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

		SELECTION 41			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE		
CL2 CL2	L-160 L-169	GLOBAL WEATHER GLOBAL WEATHER	AIR QUALITY UPPER ATMOSPHERIC RESEARCH		
CO CO CO CO CO CO CO CO CO CO CO CO CO CO	L-1 L-171 L-169 L-1 L-171 L-169 L-32 L-30 L-33 L-171 L-169 L-0 L-77	AIR QUALITY AIR QUALITY AIR QUALITY AIR QUALITY AIR QUALITY AIR QUALITY AIR QUALITY GLOBAL WEATHER CLIMATE CLIMATE	ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC CHEMISTRY ASSESSMENT ATMOSPHERIC CHEMISTRY ASSESSMENT VOLCANO/FOREST FIRE MONITORING HUMAN HEALTH HAZARDS IMPACT ON TRAFFIC SAFETY IMPACT ON CLIMATE AIR QUALITY UPPER ATMOSPHERIC RESEARCH HUMAN HEALTH RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS		
COAST LINE	L-66	GLOBAL WEATHER		MIDLATITUDE REGIONAL PROBLEMS	
COASTAL CURRENTS	Z-1	COASTAL ZONE		COASTAL RESOURCES STUDIES	
COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP COASTAL/ESTUARY CIR AMP	L-167 L-167 L-167 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-160	LAND USE LAND USE LAND USE WATER RESOURCES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY POLLUTANT WATER POLLUTION MONITORING CHEMICAL OCEAN RESEARCH MARINE GEOLOGY LIVING MARINE RESOURCES OCEAN ENGINEERING COASTAL OCEAN CONDITION FORECASTING PHYSICAL OCEAN RESEARCH OCEAN CONTAMINATION		
COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR COASTAL/ESTUARY CIR DIR	L-167 L-167 L-167 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-160 L-100	LAND USE LAND USE LAND USE WATER QUALITY OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY POLLUTION MONITORING CHEMICAL OCEAN RESEARCH LIVING MARINE RESOURCES OCEAN ENGINEERING COASTAL OCEAN CONDITION FORECASTING PHYSICAL OCEAN RESEARCH OCEAN CONTAMINATION		
COASTAL/ESTUARY CIR LOC	L-167	LAND USE		LAND USE MANAGEMENT	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4;

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
COASTAL/ESTUARY CIR LOC	L-167	LAND USE	CARTOGRAPHY
COASTAL/ESTUARY CIR LOC	L-160	WATER RESOURCES	POLLUTANT WATER
COASTAL/ESTUARY CIR LOC	L-160	WATER QUALITY	POLLUTION MONITORING
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	CHEMICAL OCEAN RESEARCH
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	MARINE GEOLOGY
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	COASTAL CONDITION FORECASTING
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
COASTAL/ESTUARY CIR LOC	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
COASTAL/ESTUARY CIR DIR	L-160	OCEAN PROCESSES	MARINE GEOLOGY
COLOR, TONAL PATTERNS	U-30	LAND USE	WILDLIFE HABITAT INFERENCE MAPPING
COLOR, TONAL PATTERNS	Z-5	LAND USE	RESOURCE IMPACT PLANNING
COLOR, TONAL PATTERNS	Z-5	LAND USE	RESOURCE IMPACT PLANNING
COLOR, TONAL PATTERNS	U-33	LAND USE	SURFACE MINING DELINEATION
COLOR, TONAL PATTERNS	U-23	LAND USE	SURFACE MINING DELINEATION
COLOR, TONAL PATTERNS	Z-18	LAND USE	ENVIRONMENTAL MANAGEMENT
COLOR, TONAL PATTERNS	A-13	AGRICULTURE	SOIL CLASSIFICATION
COLOR, TONAL PATTERNS	A-32	AGRICULTURE	SOIL CLASSIFICATION
COLOR, TONAL PATTERNS	A-14	AGRICULTURE	SOIL MOISTURE APPLICATIONS
COLOR, TONAL PATTERNS	L-167	AGRICULTURE	SOIL PRODUCTIVITY STUDIES
COLOR, TONAL PATTERNS	A-29	AGRICULTURE	RANGELANDS INVENTORY
COLOR, TONAL PATTERNS	A-27	AGRICULTURE	RANGELAND CONDITION MONITORING
COLOR, TONAL PATTERNS	A-36	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
COLOR, TONAL PATTERNS	A-71	AGRICULTURE	FOREST TYPE DELINEATION
COLOR, TONAL PATTERNS	A-57	AGRICULTURE	FOREST TYPE DELINEATION
COLOR, TONAL PATTERNS	A-64	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
COLOR, TONAL PATTERNS	A-82	AGRICULTURE	ABIOTIC STRESSES ON RANGELANDS
COLOR, TONAL PATTERNS	A-75	AGRICULTURE	FOREST INSECT DAMAGE
COLOR, TONAL PATTERNS	A-24	AGRICULTURE	FIELD BOUNDARY DELINEATION
COLOR, TONAL PATTERNS	A-23	AGRICULTURE	FIELD BOUNDARY DELINEATION
COLOR, TONAL PATTERNS	A-51	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
COLOR, TONAL PATTERNS	A-40	AGRICULTURE	VEGETATIVE CONDITION MONITORING
COLOR, TONAL PATTERNS	A-64	AGRICULTURE	CROP INSECT DAMAGE
COLOR, TONAL PATTERNS	A-50	AGRICULTURE	ABIOTIC STRESSES ON CROPS
COLOR, TONAL PATTERNS	A-48	AGRICULTURE	ABIOTIC STRESSES ON CROPS
COLOR, TONAL PATTERNS	A-74	AGRICULTURE	ABIOTIC STRESSES ON CROPS
COLOR, TONAL PATTERNS	A-65	AGRICULTURE	ABIOTIC STRESSES ON CROPS
COLOR, TONAL PATTERNS	A-5	AGRICULTURE	BIOMASS ESTIMATION
COLOR, TONAL PATTERNS	A-13	AGRICULTURE	SOIL MAPPING
COLOR, TONAL PATTERNS	A-32	AGRICULTURE	SOIL MAPPING
COLOR, TONAL PATTERNS	A-14	AGRICULTURE	SOIL MOISTURE MAPPING
COLOR, TONAL PATTERNS	A-14	AGRICULTURE	SOIL MOISTURE MODELING
COLOR, TONAL PATTERNS	A-14	AGRICULTURE	IRRIGATION MANAGEMENT
COLOR, TONAL PATTERNS	A-35	AGRICULTURE	FOREST CLASSIFICATIONS
COLOR, TONAL PATTERNS	A-36	AGRICULTURE	FOREST COVER TYPE MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4;

PARAMETER	REFER.	DISCIPLINE TITLE	APPLICATION TITLE
CURRENT DIRECTION	L-162	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
CURRENT DIRECTION	L-160	WATER QUALITY	OIL SPILL AND WASTE MONITORING
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-4	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-19	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-19	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT LOCATION	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
CURRENT LOCATION	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
CURRENT LOCATION	L-53	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
CURRENT LOCATION	L-56	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
CURRENT LOCATION	L-27	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
CURRENT LOCATION	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-5	COASTAL ZONE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-1	CRYOSPHERE	COASTAL RESOURCES STUDIES
CURRENT LOCATION	L-1	OCEAN PROCESSES	POLAR ECOLOGY
CURRENT LOCATION	L-0	CLIMATE	OCEAN DYNAMICS
CURRENT VELOCITY	L-81	WATER RESOURCES	RECREATIONAL USE STUDIES
CURRENT VELOCITY	L-101	WATER RESOURCES	WATERSHED MANAGEMENT
CURRENT VELOCITY	L-101	WATER RESOURCES	FLOOD WATER MONITORING
CURRENT VELOCITY	L-110	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
CURRENT VELOCITY	L-162	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
CURRENT VELOCITY	L-0	WATER QUALITY	POLLUTION MODELING
CURRENT VELOCITY	L-160	WATER QUALITY	OIL SPILL AND WASTE MONITORING
CURRENT VELOCITY	L-1	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
CURRENT VELOCITY	L-0	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
CURRENT VELOCITY	L-162	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
CURRENT VELOCITY	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT VELOCITY	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT VELOCITY	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
CURRENT VELOCITY	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

		SELECTION 4:			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE		
DAMAGE LEVEL DAMAGE LEVEL DAMAGE LEVEL	L-0 L-0 L-0	SEVERE STORMS SEVERE STORMS SEVERE STORMS	RECOVERY/AID PROCEDURE DEVELOPMENT RECOVERY/AID PROCEDURE DEVELOPMENT RECOVERY/AID PROCEDURE DEVELOPMENT		
DEBRIS TRACKING DEBRIS TRACKING	L-107 L-107	AIR QUALITY AIR QUALITY	POLLUTION MODELING EFFECTIVENESS OF POLLUTION CONTROL		
DEEPSA CIRCULATION	L-29	GLOBAL WEATHER	GENERAL OCEAN CIRCULATION		
DEFORMATION RATE	G-203	GEODYNAMICS	STRESS/STRAIN MODELING		
DEW POINT TEMP DEW POINT TEMP DEW POINT TEMP DEW POINT TEMP DEW POINT TEMP	L-0 L-0 L-73 L-14 L-0 L-0	WATER RESOURCES SEVERE STORMS SEVERE STORMS SEVERE STORMS SEVERE STORMS	PRECIPITATION & WARNING THUNDERSTORM PREDICTION & WARNING THUNDERSTORM PREDICTION & WARNING TORNADO PREDICTION & WARNING WATERSPOUT PREDICTION & WARNING SEVERE STORM DETECTION		
DIFFUSION RATE DIFFUSION RATE	L-0 L-0	WATER QUALITY WATER QUALITY	OIL SPILL AND WASTE MONITORING HAZARDOUS WATER POLLUTION WARNING		
DISASTER AREA LOCATION	L-0	SEVERE STORMS	RECOVERY/AID PROCEDURE DEVELOPMENT		
DISSOLVED CASSES DISSOLVED CASSES DISSOLVED CASSES DISSOLVED CASSES	L-100 L-1 L-167 L-102 L-167	WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY WATER QUALITY	WETLANDS MAPPING AND INVENTORY POLLUTANT EFFECTS ON BIOPROCESSES POLLUTANT EFFECTS ON BIOPROCESSES POLLUTANT EFFECTS ON BIOPROCESSES POLLUTANT EFFECTS ON BIOPROCESSES		
DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS	L-167 L-117	WATER QUALITY WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING WATER QUALITY ANALYSIS		
DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS DISSOLVED NUTRIENTS	L-167 L-167 L-167 L-102 L-167 L-167 L-102 L-167 L-167 L-167 L-81	LAND USE LAND USE WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES	WETLAND MANAGEMENT SURFACE WATER INVENTORY WATER SUPPLY INVENTORY MONITORING/ASSESSMENT LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH WETLANDS MAPPING AND INVENTORY INDUSTRIAL USES		

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

SELECTION 4;

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
DISSOLVED NUTRIENTS	L-167	WATER RESOURCES	WATER RESOURCES EVAL FOR CROP RESOURCES NOT
DISSOLVED NUTRIENTS	L-0	WATER QUALITY	MONITORING CONDITIONS OF LAKES
DISSOLVED NUTRIENTS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
DISSOLVED NUTRIENTS	L-1	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
DISSOLVED NUTRIENTS	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
DISSOLVED NUTRIENTS	L-102	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
DISSOLVED NUTRIENTS	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
DISSOLVED NUTRIENTS	L-104	WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING
DISSOLVED NUTRIENTS	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
DISSOLVED NUTRIENTS	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
DISSOLVED NUTRIENTS	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
DISSOLVED OXYGEN	L-167	LAND USE	SURFACE WATER INVENTORY
DISSOLVED OXYGEN	L-167	WATER RESOURCES	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
DISSOLVED OXYGEN	L-167	WATER RESOURCES	WATER RESOURCES EVAL FOR CROP RESOURCES NOT
DISSOLVED OXYGEN	L-0	WATER QUALITY	MONITORING CONDITIONS OF LAKES
DISSOLVED OXYGEN	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
DISSOLVED OXYGEN	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
DISSOLVED OXYGEN	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
DOWNBURST	L-74	SEVERE STORMS	AIRCRAFT ROUTING CONSIDERATION
DRAINAGE PATTERNS	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
DRAINAGE PATTERNS	L-167	LAND USE	CARTOGRAPHY
DRAINAGE PATTERNS	U-11	LAND USE	WILDLIFE HABITATE INFERENCE MAPPING
DRAINAGE PATTERNS	Z-2	LAND USE	ECOSYSTEM MAPPING
DRAINAGE PATTERNS	U-1	LAND USE	SURFACE WATER INVENTORY
DRAINAGE PATTERNS	U-8	LAND USE	LAND USE IMPACT ASSESSMENT
DRAINAGE PATTERNS	Z-5	LAND USE	RESOURCE MINING DELINEATION
DRAINAGE PATTERNS	U-25	LAND USE	SURFACE MINING DELINEATION
DRAINAGE PATTERNS	Z-2	LAND USE	WETLAND MANAGEMENT
DRAINAGE PATTERNS	Z-10	LAND USE	WETLAND MANAGEMENT
DRAINAGE PATTERNS	A-39	AGRICULTURE	VEGETATION CLASSIFICATION
DRAINAGE PATTERNS	A-13	AGRICULTURE	SOIL CLASSIFICATION
DRAINAGE PATTERNS	A-32	AGRICULTURE	SOIL CLASSIFICATION
DRAINAGE PATTERNS	A-28	AGRICULTURE	RANGELAND CONDITION MONITORING
DRAINAGE PATTERNS	A-39	AGRICULTURE	ACREAGE INVENTORY
DRAINAGE PATTERNS	A-80	AGRICULTURE	CROP TYPE INVENTORY
DRAINAGE PATTERNS	A-69	AGRICULTURE	ABIOTIC STRESSES ON CROPS

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

PARAMETER	DISCIPLINE TITLE	SELECTION 4:	APPLICATION TITLE
DRAINAGE PATTERNS	AGRICULTURE	A-69	ABIOTIC STRESSES ON CROPS
DRAINAGE PATTERNS	AGRICULTURE	A-69	ABIOTIC STRESSES ON CROPS
DRAINAGE PATTERNS	AGRICULTURE	A-13	ABIOTIC STRESSES ON CROPS
DRAINAGE PATTERNS	AGRICULTURE	A-32	SOIL MAPPING
DRAINAGE PATTERNS	WATER RESOURCES	L-105	WETLANDS MAPPING AND INVENTORY
DRAINAGE PATTERNS	WATER RESOURCES	L-113	PLAYA LAKE INVENTORY
DRAINAGE PATTERNS	WATER RESOURCES	L-113	RUNOFF MONITORING/ASSESSMENT
DRAINAGE PATTERNS	WATER RESOURCES	L-112	RUNOFF MONITORING/ASSESSMENT
DRAINAGE PATTERNS	WATER RESOURCES	L-81	SOIL MOISTURE STUDIES
DRAINAGE PATTERNS	WATER RESOURCES	L-100	SNOWMELT MONITORING
DRAINAGE PATTERNS	WATER RESOURCES	L-140	SNOWMELT MONITORING
DRAINAGE PATTERNS	WATER RESOURCES	L-100	ANTECEDENT PRECIP INDEX DETERMINATION
DRAINAGE PATTERNS	WATER RESOURCES	L-100	RUNOFF MODELING
DRAINAGE PATTERNS	WATER RESOURCES	L-100	WATER MODELING STUDIES
DRAINAGE PATTERNS	WATER RESOURCES	L-101	HYDROLOGIC MODEL DEVELOPMENT
DRAINAGE PATTERNS	WATER RESOURCES	L-140	WATERSHED MANAGEMENT
DRAINAGE PATTERNS	WATER RESOURCES	L-147	WATERSHED MANAGEMENT
DRAINAGE PATTERNS	WATER RESOURCES	L-81	IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
DRAINAGE PATTERNS	WATER RESOURCES	L-147	WATER SUPPLY FOR FISH AND WILDLIFE
DRAINAGE PATTERNS	WATER RESOURCES	L-156	POLLUTANT WATER
DRAINAGE PATTERNS	WATER RESOURCES	L-100	FLOOD AREA MAPPING
DRAINAGE PATTERNS	WATER QUALITY	L-102	FLOOD WATER MONITORING
DRAINAGE PATTERNS	WATER QUALITY	L-147	POLLUTANT EFFECTS ON BIOPROCESSES
DRAINAGE PATTERNS	COASTAL ZONE	L-0	POLLUTANT EFFECTS ON BIOPROCESSES
DRAINAGE PATTERNS	COASTAL ZONE	Z-10	HAZARDOUS WATER POLLUTION WARNING
DRAINAGE PATTERNS	COASTAL ZONE	Z-10	COASTAL ENVIRONMENT MAPPING
DRAINAGE PATTERNS	COASTAL ZONE	Z-10	COASTAL ENVIRONMENT MAPPING
DRAINAGE PATTERNS	COASTAL ZONE	Z-19	COASTAL ENVIRONMENT MAPPING
DRAINAGE PATTERNS	COASTAL ZONE	Z-17	COASTAL ENVIRONMENT MAPPING
DRAINAGE PATTERNS	COASTAL ZONE	Z-19	COASTAL ENVIRONMENT MAPPING
DRAINAGE PATTERNS	COASTAL ZONE	Z-2	OPERATION/NAVIGATION ASSESSMENT
DRAINAGE PATTERNS	COASTAL ZONE	Z-2	COASTAL OCEAN CONDITION MONITORING
DRAINAGE PATTERNS	COASTAL ZONE	Z-10	COASTAL OCEAN CONDITION MONITORING
DRAINAGE PATTERNS	COASTAL ZONE	Z-2	COASTAL OCEAN CONDITION MONITORING
DRAINAGE PATTERNS	COASTAL ZONE	Z-17	COASTAL, ESTUARY AND OCEAN ENGINEERING
DRAINAGE PATTERNS	COASTAL ZONE	Z-10	COASTAL, ESTUARY AND OCEAN ENGINEERING
DRAINAGE PATTERNS	COASTAL ZONE	Z-2	COASTAL RESOURCES STUDIES
DRAINAGE PATTERNS	COASTAL ZONE	Z-2	COASTAL RESOURCES STUDIES
DRAINAGE PATTERNS	GLOBAL WEATHER	L-0	GLOBAL CONVECTIVE BALANCE
DRAINAGE PATTERNS	GLOBAL WEATHER	L-0	GLOBAL WATER BALANCE
DRAINAGE PATTERNS	GEODYNAMICS	L-0	EARTHQUAKE RISK ASSESSMENT
DRAINAGE PATTERNS	GEODYNAMICS	G-10	REGIONAL STUDIES
DRAINAGE PATTERNS	GEODYNAMICS	G-9	TECTONIC STUDIES
DRAINAGE PATTERNS	GEODYNAMICS	G-12	TECTONIC STUDIES
DRAINAGE PATTERNS	GEODYNAMICS	G-1	GEOLOGICAL MAPPING
DRAINAGE PATTERNS	GEODYNAMICS	G-2	GEOLOGICAL MAPPING
DRAINAGE PATTERNS	GEODYNAMICS	G-8	GEOLOGICAL MAPPING
DRAINAGE PATTERNS	GEODYNAMICS	G-17	GEOLOGICAL MAPPING
DRAINAGE PATTERNS	GEODYNAMICS	G-12	LANDFORM MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

PARAMETER		SELECTION 4,		APPLICATION TITLE	
DISCIPLINE TITLE	REFER	DISCIPLINE TITLE	REFER	DISCIPLINE TITLE	REFER
DRY BIOMASS	L-1	COASTAL ZONE	L-1	COASTAL RESOURCES STUDIES	
DRY BIOMASS	L-2	COASTAL ZONE	L-2	COASTAL RESOURCES STUDIES	
DRY BIOMASS	L-3	COASTAL ZONE	L-3	COASTAL RESOURCES STUDIES	
EARTH SPIN AXIS	L-0	GLOBAL WEATHER	L-0	GLOBAL CONVECTIVE BALANCE	
EARTH SPIN RATE	L-0	GLOBAL WEATHER	L-0	GLOBAL CONVECTIVE BALANCE	
EDDY LOCATION	L-1	OCEAN PROCESSES	L-1	OCEAN DYNAMICS	
EDDY LOCATION	L-155	OCEAN PROCESSES	L-155	OCEAN CURRENT STUDIES	
EDDY TOPOGRAPHY	L-1	OCEAN PROCESSES	L-1	OCEAN DYNAMICS	
EDDY TOPOGRAPHY	L-155	OCEAN PROCESSES	L-155	OCEAN CURRENT STUDIES	
ELECTRIC FIELD DISTRIB	L-0	SEVERE STORMS	L-0	RESEARCH IONOSPHERIC WAVES ASSOC WITH HAIL & TORNADOES	
ELECTRICITY DISTRIB	L-13	SEVERE STORMS	L-13	LIGHTNING PREDICTION/WARNING	
ELECTRICITY DISTRIB	L-70	GLOBAL WEATHER	L-70	WEATHER MODIFICATION	
EMISSION	L-100	WATER RESOURCES	L-100	WATER TABLES AND GROUND WATER DETECTION	
EMISSION	L-109	WATER RESOURCES	L-109	SOIL MOISTURE STUDIES	
EMISSION	L-111	WATER RESOURCES	L-111	SOIL MOISTURE STUDIES	
EMISSION	L-111	WATER RESOURCES	L-111	ANTECEDENT PRECIP INDEX DETERMINATION	
EMISSION	L-114	WATER RESOURCES	L-114	EVAPOTRANSPIRATION MODELING	
EMISSION	L-104	WATER QUALITY	L-104	LASER TECHNOLOGY FOR SUBSURFACE MONITORING	
EMISSION	L-107	AIR QUALITY	L-107	POLLUTION MODELING	
EQ-TO-POLE RADIATION GRAD	L-160	GLOBAL WEATHER	L-160	WEATHER FORECASTS	
EQ-TO-POLE TEMP GRAD	L-51	AIR QUALITY	L-51	CO2 IMPACTS	
EROSION LEVEL	A-13	AGRICULTURE	A-13	SOIL CLASSIFICATION	
EROSION LEVEL	A-11	AGRICULTURE	A-11	SOIL MAPPING	
EROSION LEVEL	A-11	AGRICULTURE	A-11	SOIL MAPPING	
EROSION LEVEL	A-4	AGRICULTURE	A-4	SOIL EROSION MAPPING	
EROSION LEVEL	A-11	AGRICULTURE	A-11	SOIL EROSION MAPPING	
EROSION LEVEL	A-4	AGRICULTURE	A-4	SOIL EROSION MODELING	
EROSION LEVEL	A-11	AGRICULTURE	A-11	SOIL EROSION MODELING	
EROSION LEVEL	A-4	AGRICULTURE	A-4	SOIL EROSION MANAGEMENT	
EROSION LEVEL	A-11	AGRICULTURE	A-11	SOIL EROSION MANAGEMENT	

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

PARAMETER		SELECTION 4)		APPLICATION TITLE	
DISCIPLINE TITLE		REFER.		L-114	
EROSION RATE	EROSION RATE	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING	
EROSION RATE	EROSION RATE	L-0	WATER RESOURCES	FLOOD DAMAGE ASSESSMENT	
EROSION RATE	EROSION RATE	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING	
EROSION RATE	EROSION RATE	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING	
EROSION RATE	EROSION RATE	L-4	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING	
EROSION RATE	EROSION RATE	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING	
EROSION RATE	EROSION RATE	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING	
EROSION RATE	EROSION RATE	L-0	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING	
EROSION RATE	EROSION RATE	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-7	COASTAL ZONE	COASTAL RESOURCES STUDIES	
EROSION RATE	EROSION RATE	L-1	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE	
EROSION TYPE	EROSION TYPE	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY	
EROSION TYPE	EROSION TYPE	G-8	GEODYNAMICS	GEOLOGICAL MAPPING	
EROSION TYPE	EROSION TYPE	G-15	GEODYNAMICS	FAULT-FRACTURE MAPPING	
EROSION TYPE	EROSION TYPE	G-8	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING	
EVACUATION AREA	EVACUATION AREA	L-23	SEVERE STORMS	FLOOD DAMAGE ASSESSMENT	
EVACUATION AREA	EVACUATION AREA	L-0	SEVERE STORMS	WIND DAMAGE ASSESSMENT	
EVAPORATION RATE	EVAPORATION RATE	L-170	LAND USE	LAND USE MANAGEMENT	
EVAPORATION RATE	EVAPORATION RATE	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY	
EVAPORATION RATE	EVAPORATION RATE	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING	
EVAPORATION RATE	EVAPORATION RATE	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING	
EVAPORATION RATE	EVAPORATION RATE	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING	
EVAPORATION RATE	EVAPORATION RATE	L-100	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT	
EVAPORATION RATE	EVAPORATION RATE	L-100	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT	
EVAPORATION RATE	EVAPORATION RATE	L-81	WATER RESOURCES	WATER SUPPLY FORECASTS	
EVAPORATION RATE	EVAPORATION RATE	L-0	WATER QUALITY	POLLUTION MODELING	
EVAPORATION RATE	EVAPORATION RATE	L-120	WATER QUALITY	OIL SPILL AND WASTE MONITORING	
EVAPORATION RATE	EVAPORATION RATE	L-54	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS	
EVAPORATION RATE	EVAPORATION RATE	L-103	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT	
EVAPORATION RATE	EVAPORATION RATE	L-11	OCEAN PROCESSES	OCEAN INTERACTIONS	
EVAPORATION RATE	EVAPORATION RATE	L-169	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION	
EVAPORATION RATE	EVAPORATION RATE	L-0	SEVERE STORMS	HURRICANE PREDICTION/WARNING	
EVAPORATION RATE	EVAPORATION RATE	L-0	SEVERE STORMS	FLOOD DAMAGE ASSESSMENT	
EVAPORATION RATE	EVAPORATION RATE	L-0	GLOBAL WEATHER	FLOOD WATER MAPPING	
EVAPORATION RATE	EVAPORATION RATE	L-160	GLOBAL WEATHER	WEATHER FORECASTS	
EVAPORATION RATE	EVAPORATION RATE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS	
EVAPORATION RATE	EVAPORATION RATE	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE	

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	G-1	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	G-2	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	L-1	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	G-8	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FAULTS, FRACTURES	G-18	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
FE	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
FISH IDENTIFICATION	L-167	WATER QUALITY	POLLUTION MONITORING
FISH IDENTIFICATION	L-160	WATER QUALITY	POLLUTION MONITORING
FISH IDENTIFICATION	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
FISH IDENTIFICATION	L-0	OCEAN PROCESSES	OCEAN CONTAMINATION
FISH OIL/BIPRODUCT EXTENT	L-167	WATER QUALITY	POLLUTION MONITORING
FISH OIL/BIPRODUCT EXTENT	L-160	WATER QUALITY	POLLUTION MONITORING
FISH OIL/BIPRODUCT EXTENT	L-0	WATER QUALITY	WATER QUALITY ANALYSIS
FISH OIL/BIPRODUCT EXTENT	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
FISH OIL/BIPRODUCT EXTENT	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
FISH OIL/BIPRODUCT EXTENT	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
FISH OIL/BIPRODUCT THICKNESS	L-167	WATER QUALITY	POLLUTION MONITORING
FISH OIL/BIPRODUCT THICKNESS	L-160	WATER QUALITY	POLLUTION MONITORING
FISH OIL/BIPRODUCT THICKNESS	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
FISH OIL/BIPRODUCT TYPE	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
FISH OIL/BIPRODUCT TYPE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
FISH OIL/BIPRODUCT TYPE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
FISH SIZE	L-167	WATER QUALITY	POLLUTION MONITORING
FISH SIZE	L-167	WATER QUALITY	POLLUTION MONITORING
FISH SIZE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
FISH SIZE	L-0	OCEAN PROCESSES	OCEAN CONTAMINATION
FLASH DENSITY	L-13	SEVERE STORMS	LIGHTNING PHYSICS

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

		SELECTION 4.			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE		
FLASH RATE	L-13	SEVERE STORMS	LIGHTNING PHYSICS		
FLOOD AREA LOCATION	L-23	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION		
FLOOD DURATION	L-23 L-0	SEVERE STORMS SEVERE STORMS	FLOOD DAMAGE ASSESSMENT FLOOD WATER MAPPING		
FLOOD EXTENT	L-100 L-101 L-100 L-120 L-156 L-0 L-3 L-4 L-1 L-2 L-2 L-0 L-1 L-2 L-23	WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE SEVERE STORMS	RUNOFF MONITORING/ASSESSMENT WATERSHED MANAGEMENT FLOOD AREA MAPPING FLOOD AREA MAPPING FLOOD AREA MAPPING FLOOD DAMAGE ASSESSMENT COASTAL ENVIRONMENT MAPPING COASTAL ENVIRONMENT MAPPING OPERATION/NAVIGATION ASSESSMENT COASTAL OCEAN CONDITION MONITORING COASTAL ESTUARY AND OCEAN ENGINEERING COASTAL ESTUARY AND OCEAN ENGINEERING COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES FLOOD DAMAGE ASSESSMENT		
FLOOD LEVEL	L-23 L-23 L-0	SEVERE STORMS SEVERE STORMS SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION FLOOD DAMAGE ASSESSMENT FLOOD WATER MAPPING		
FLOOD PLAIN EXTENT	L-167 L-167	LAND USE LAND USE LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY		
FOLD ELEMENTS	G-15 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10	GEODYNAMICS NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES	FAULT FRACTURE MAPPING METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION HYDROCARBON & ENERGY-PRODUCING RESOURCES HYDROCARBON & ENERGY-PRODUCING RESOURCES HYDROCARBON & ENERGY-PRODUCING RESOURCES		

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS FOLD ELEMENTS	L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10 L-10	NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES HYDROCARBON & ENERGY-PRODUCING RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES GEOLOGICAL ECONOMIC RESOURCES
FOSSIL PLANKTON COMPOS	L-60	CLIMATE	HISTORICAL DATA ANALYSIS
FREE WATER CONTENT	L-34	CRYOSPHERE	SNOW MELTING MODELLING
FRONTS LOCATION	L-66	GLOBAL WEATHER	MIDLATITUDE REGIONAL PROBLEMS
FROZEN GROUND EXTENT FROZEN GROUND EXTENT	L-109 L-1	WATER RESOURCES NON-RENEWABLE RESOURCES	SOIL MOISTURE STUDIES ENGINEERING/CONSTRUCTION IMPACTS
FUEL MOISTURE FUEL MOISTURE FUEL MOISTURE FUEL MOISTURE	L-167 L-167 L-167 L-71 L-72	LAND USE LAND USE LAND USE GLOBAL WEATHER GLOBAL WEATHER	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY FOREST FIRE WEATHER FOREST FIRE WEATHER
F2 F2	L-160 L-169	GLOBAL WEATHER GLOBAL WEATHER	AIR QUALITY UPPER ATMOSPHERIC RESEARCH
GALACTIC RADIATION	L-111	WATER RESOURCES	SOIL MOISTURE STUDIES
GAMMA RAY ENERGY DISTRIB	L-160	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
GENID LOCATION	G-201	GEOYNAMICS	GRAVITY FIELD MODELING
GRAVITY FIELD STRENGTH GRAVITY FIELD STRENGTH GRAVITY FIELD STRENGTH GRAVITY FIELD STRENGTH GRAVITY FIELD STRENGTH GRAVITY FIELD STRENGTH	L-10 G-203 G-201 G-202 G-203 L-10 L-10	COASTAL ZONE GEOYNAMICS GEOYNAMICS GEOYNAMICS GEOYNAMICS NON-RENEWABLE RESOURCES NON-RENEWABLE RESOURCES	COASTAL RESOURCES STUDIES EARTHQUAKE RISK ASSESSMENT GRAVITY FIELD MODELING GRAVITY FIELD MODELING REGIONAL CRUSTAL DEFORMATION MODELING METAL AND ORE EXPLORATION METAL AND ORE EXPLORATION

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SECTION 4,			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
HEAT TRANSPORT	L-81	WATER RESOURCES	INDUSTRIAL USES
HEAT TRANSPORT	L-54	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
HEAT TRANSPORT	L-46	GLOBAL WEATHER	ARCTIC AND SUBARCTIC SEAS
HEAT TRANSPORT	L-66	GLOBAL WEATHER	SOUTHERN OCEANS
HEAT TRANSPORT	L-66	GLOBAL WEATHER	GEOCHEMISTRY
HEAT TRANSPORT	L-66	GLOBAL WEATHER	MIDLATITUDE REGIONAL PROBLEMS
HF	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HF	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HF	L-171	GLOBAL WEATHER	AIR QUALITY
HF	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
HG	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HG	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
HG	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
HG	L-171	GLOBAL WEATHER	AIR QUALITY
HIGH PRESSURE PATTERN	L-65	GLOBAL WEATHER	ATMOSPHERIC BLOCKING
HN03	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HN03	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HN03	L-1	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT
HN03	L-171	GLOBAL WEATHER	AIR QUALITY
HN03	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
HOCL	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
HORIZONTAL WIND	L-34	CRYOSPHERE	ICE SHEET DYNAMICS
HORIZONTAL WIND	L-34	CRYOSPHERE	ICEBERG MOVEMENT
HORIZONTAL WIND	L-74	SEVERE STORMS	AIRCRAFT ROUTING CONSIDERATION
H02	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
H02, H202, H203, CLON02, HOCL	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
HYDROCARBONS	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
HYDROCARBONS	L-32	AIR QUALITY	HUMAN HEALTH HAZARDS
HYDROCARBONS	L-0	AIR QUALITY	IMPACT ON TRAFFIC SAFETY
H2C0	L-160	GLOBAL WEATHER	AIR QUALITY

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

PARAMETER	REFER	DISCIPLINE TITLE	SELECTION 41	APPLICATION TITLE
H20	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
H20	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
H20	L-169	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
H20	L-0	AIR QUALITY		ATMOSPHERIC CHEMISTRY ASSESSMENT
H20	L-51	AIR QUALITY		WATER VAPOR CONTAMINATION
H20	L-0	AIR QUALITY		CO2 IMPACTS
H20	L-0	AIR QUALITY		TROPOSPHERIC AEROSOLS
H20	L-171	GLOBAL WEATHER		EFFECTS OF AIR POLLUTION ON AGRICULTURE
H20	L-171	GLOBAL WEATHER		AIR QUALITY
H20	L-169	GLOBAL WEATHER		AIR QUALITY
H20	L-77	CLIMATE		UPPER ATMOSPHERIC RESEARCH
				RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
H20 CONTENT	L-103	AIR QUALITY		STRATOSPHERE/TROPOSPHERE INTERFACE
H20 CONTENT	L-100	AIR QUALITY		ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
H202	L-169	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
H25	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
H25	L-32	AIR QUALITY		HUMAN HEALTH HAZARDS
H25	L-171	GLOBAL WEATHER		AIR QUALITY
ICE ACCUMULATION RATE	L-34	CRYOSPHERE		ICE SHEET DYNAMICS
ICE ACCUMULATION RATE	L-34	CRYOSPHERE		ICEBERG DYNAMICS
ICE AGE	L-162	WATER RESOURCES		FROZEN LAKE MAPPING
ICE AGE	L-1	CRYOSPHERE		SEA ICE DYNAMICS
ICE AGE	L-162	CRYOSPHERE		RIVER AND LAKE ICE FORECAST
ICE AGE	L-34	CRYOSPHERE		POLAR ICE MAPPING
ICE AGE	L-162	OCEAN PROCESSES		PHYSICAL OCEAN RESEARCH
ICE BOTTOM SURFACE ROUGHNESS	L-168	CRYOSPHERE		RIVER AND LAKE ICE FORECAST
ICE BOUNDARY	L-34	CRYOSPHERE		ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE BOUNDARY	L-34	CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION
ICE BOUNDARY	L-34	CRYOSPHERE		SEA ICE DYNAMICS
ICE BOUNDARY	L-34	CRYOSPHERE		ICEBERG DYNAMICS
ICE BOUNDARY	L-34	CRYOSPHERE		POLAR ICE MAPPING
ICE BOUNDARY	L-155	GLOBAL WEATHER		ARCTIC AND SUBARCTIC SEAS
ICE CONCEN	L-34	CRYOSPHERE		ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE CONCEN	L-34	CRYOSPHERE		ICE IMPACT ON NAVIGATION
ICE CONCEN	L-34	CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION
ICE CONCEN	L-34	CRYOSPHERE		SEA ICE DYNAMICS

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMERCIALITY DATA BASE

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Table 4.4.1.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

PARAMETER	REFER	SELECTION 4:		APPLICATION TITLE
		DISCIPLINE TITLE		
ICE FLOE LOCATION	L-34	CLIMATE		CONSTRUCTION
ICE FLOE SIZE	7-20	COASTAL ZONE		OPERATION/NAVIGATION ASSESSMENT
ICE FLOE SIZE	L-27	COASTAL ZONE		OPERATION/NAVIGATION ASSESSMENT
ICE FLOE SIZE	L-78	CLIMATE		TRANSPORTATION
ICE FREEZING RATES	L-100	WATER RESOURCES		WATER MODELING STUDIES
ICE INTERNAL PROPERTIES	L-34	CRYOSPHERE		ICEBERG DYNAMICS
ICE LEAD FRACTIONAL AREA	L-34	CRYOSPHERE		ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE LEAD FRACTIONAL AREA	L-34	CRYOSPHERE		ICE IMPACT ON NAVIGATION
ICE LEAD FRACTIONAL AREA	L-34	CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION
ICE LEAD FRACTIONAL AREA	L-0	GLOBAL WEATHER		SEA ICE DYNAMICS
				GLOBAL CONVECTIVE BALANCE
ICE LEAD LOCATION/SIZING	L-162	CRYOSPHERE		RIVER AND LAKE ICE FORECAST
ICE LEAD ORIENTATION	L-162	WATER RESOURCES		FROZEN LAKE MAPPING
ICE LEAD ORIENTATION	L-34	CRYOSPHERE		ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE LEAD ORIENTATION	L-34	CRYOSPHERE		ICE IMPACT ON NAVIGATION
ICE LEAD ORIENTATION	L-34	CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION
ICE LEAD ORIENTATION	L-34	CRYOSPHERE		SEA ICE DYNAMICS
ICE MOVEMENT	L-34	CRYOSPHERE		ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE MOVEMENT	L-34	CRYOSPHERE		ICE IMPACT ON NAVIGATION
ICE MOVEMENT	L-34	CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION
ICE MOVEMENT	L-34	CRYOSPHERE		SEA ICE DYNAMICS
ICE MOVEMENT	L-34	CRYOSPHERE		ICEBERG DYNAMICS
ICE MOVEMENT	L-34	CRYOSPHERE		POLAR ICE MOTION
ICE MOVEMENT	L-34	CRYOSPHERE		SEA ICE MOVEMENT
ICE MOVEMENT	L-34	CLIMATE		CONSTRUCTION
ICE SALINITY	L-162	OCEAN PROCESSES		PHYSICAL OCEAN RESEARCH
ICE SHEET BOUNDARY	L-34	CRYOSPHERE		ICE SHEET DYNAMICS
ICE SHEET LOCATION	L-60	CLIMATE		HISTORICAL DATA ANALYSIS
ICE SHEET THICKNESS	L-34	CRYOSPHERE		POLAR ICE MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMUNALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
ICE STRAIN RATE	L-34	CRYOSPHERE	ICEBERG DYNAMICS
ICE SURFACE ELEVATION	L-34	CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION
ICE SURFACE ELEVATION	L-34	CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION
ICE SURFACE ELEVATION	L-34	CRYOSPHERE	ICE SHEET DYNAMICS
ICE SURFACE ELEVATION	L-34	CRYOSPHERE	ICEBERG DYNAMICS
ICE SURFACE ELEVATION CHANGE	L-34	CRYOSPHERE	ICE SHEET DYNAMICS
ICE SURFACE ELEVATION CHANGE	L-34	CRYOSPHERE	ICEBERG DYNAMICS
ICE SURFACE FEATURES	L-155	OCEAN PROCESSES	OUTTER CONTINENTAL ENERGY ASSESSMENT
ICE SURFACE ROUGHNESS	L-0	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
ICE SURFACE ROUGHNESS	L-1	CRYOSPHERE	SEA ICE DYNAMICS
ICE SURFACE ROUGHNESS	L-34	CRYOSPHERE	ICEBERG DYNAMICS
ICE SURFACE ROUGHNESS	L-16	CRYOSPHERE	RIVER AND LAKE ICE FORECAST
ICE SURFACE TEMP	L-1	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
ICE SURFACE TEMP	L-34	CRYOSPHERE	SEA ICE DYNAMICS
ICE SURFACE TEMP	L-54	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
ICE SURFACE TEMP	L-34	CRYOSPHERE	ICE SHEET DYNAMICS
ICE SURFACE TEMP	L-0	CRYOSPHERE	RIVER AND LAKE ICE FORECAST
ICE THICKNESS	L-160	LAND USE	SURFACE WATER INVENTORY
ICE THICKNESS	L-100	WATER RESOURCES	FROZEN LAKE MAPPING
ICE THICKNESS	L-162	WATER RESOURCES	FROZEN LAKE MAPPING
ICE THICKNESS	L-168	WATER RESOURCES	FROZEN LAKE MAPPING
ICE THICKNESS	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
ICE THICKNESS	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
ICE THICKNESS	L-100	WATER RESOURCES	LAKE/RIVER ICE SURVEY
ICE THICKNESS	L-100	WATER RESOURCES	SNOWMELT MONITORING
ICE THICKNESS	L-160	WATER RESOURCES	SNOWMELT MONITORING
ICE THICKNESS	L-100	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
ICE THICKNESS	L-100	WATER RESOURCES	WATER MODELING STUDIES
ICE THICKNESS	L-34	CRYOSPHERE	ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE THICKNESS	L-34	CRYOSPHERE	ICE IMPACT ON NAVIGATION
ICE THICKNESS	L-34	CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION
ICE THICKNESS	L-0	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
ICE THICKNESS	L-34	CRYOSPHERE	SEA ICE DYNAMICS
ICE THICKNESS	L-34	CRYOSPHERE	ICEBERG DYNAMICS
ICE THICKNESS	L-162	CRYOSPHERE	RIVER AND LAKE ICE FORECAST
ICE THICKNESS	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
ICE THICKNESS	L-162	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
ICE THICKNESS	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
ICE THICKNESS	L-29	GLOBAL WEATHER	POLAR EXPERIMENT
ICE THICKNESS	L-29	GLOBAL WEATHER	ICE IMPACT ON WEATHER

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
ICE TYPE	L-24	CRYOSPHERE	ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
ICE TYPE	L-34	CRYOSPHERE	ICE IMPACT ON NAVIGATION
ICE TYPE	L-0	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
ICE TYPE	L-34	CRYOSPHERE	SEA ICE DYNAMICS
ICE TYPE	L-34	CRYOSPHERE	POLAR ICE MOTION
ICE TYPE	L-34	CRYOSPHERE	SEA ICE MOVEMENT
ICE TYPE	L-34	CRYOSPHERE	POLAR ICE MAPPING
ICE TYPE	L-153	OCEAN PROCESSES	OUTER CONTINENTAL ENERGY ASSESSMENT
ICE/SNOW ALBEDO	L-100	WATER RESOURCES	SNOWPACK PROPERTIES RESEARCH
ICE/SNOW ALBEDO	L-115	WATER RESOURCES	SNOWPACK PROPERTIES RESEARCH
ICE/SNOW ALBEDO	L-160	WATER RESOURCES	SNOWMELT MONITORING
ICE/SNOW ALBEDO	L-20	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
ICE/SNOW ALBEDO	L-1	CRYOSPHERE	ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT
ICE/SNOW ALBEDO	L-34	CRYOSPHERE	SNOW MELTING MODELLING
ICE/SNOW ALBEDO	L-34	CRYOSPHERE	SNOW PACK PROPERTIES RESEARCH
ICE/SNOW ALBEDO	L-34	CRYOSPHERE	SEA ICE DYNAMICS
ICE/SNOW ALBEDO	L-103	CRYOSPHERE	SEA ICE DYNAMICS
ICE/SNOW ALBEDO	L-51	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
ICE/SNOW ALBEDO	L-1	AIR QUALITY	CO ₂ IMPACTS
ICE/SNOW ALBEDO	L-1	CLIMATE	GENERAL CIRCULATION MODEL
ICE/SNOW EXTENT	L-170	LAND USE	SURFACE WATER INVENTORY
ICE/SNOW EXTENT	L-167	WATER RESOURCES	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
ICE/SNOW EXTENT	L-162	WATER RESOURCES	FROZEN LAKE MAPPING
ICE/SNOW EXTENT	L-81	WATER RESOURCES	WATER SUPPLY FORECASTS
ICE/SNOW EXTENT	L-1	CRYOSPHERE	ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT
ICE/SNOW EXTENT	L-34	CRYOSPHERE	SNOW PACK PROPERTIES RESEARCH
ICE/SNOW EXTENT	L-51	AIR QUALITY	SNOW PACK CO ₂ IMPACTS
ICE/SNOW EXTENT	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
ICE/SNOW EXTENT	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
ICE/SNOW EXTENT	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
ICE/SNOW EXTENT	L-23	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
ICE/SNOW EXTENT	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
ICE/SNOW EXTENT	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
ICE/SNOW EXTENT	L-1	CLIMATE	GENERAL CIRCULATION MODEL
ICE/SNOW EXTENT	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
ICE/SNOW FRACTION	L-100	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
ICE/SNOW FRACTION	L-162	OCEAN PROCESSES	OCEAN RESEARCH
ICE/SNOW FRACTION	L-162	CLIMATE	PHYSICAL FISHERY
ICE/SNOW MELT	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
ICE/SNOW MELT	L-167	LAND USE	LAND USE MANAGEMENT
ICE/SNOW MELT	L-81	WATER RESOURCES	CARTOGRAPHY
ICE/SNOW MELT	L-0	WATER RESOURCES	SOIL MOISTURE STUDIES
ICE/SNOW MELT	L-34	WATER RESOURCES	SNOWMELT MONITORING
ICE/SNOW MELT	L-34	CRYOSPHERE	SNOW PACK PROPERTIES RESEARCH
ICE/SNOW MELT	L-34	CRYOSPHERE	SEASONAL SNOW ON LAND

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
ICE/SNOW MELT ICE/SNOW MELT ICE/SNOW MELT ICE/SNOW MELT ICE/SNOW MELT	L-34 L-34 L-34 L-34 L-167	CRYOSPHERE CRYOSPHERE CRYOSPHERE CRYOSPHERE CLIMATE	SNOW HYDROLOGY SEA ICE DYNAMICS ICE SHEET DYNAMICS ICEBERG DYNAMICS LAND USE
ICE/SNOW SUBLIMATION RATE ICE/SNOW SUBLIMATION RATE	L-167 L-167	LAND USE CLIMATE	LAND USE MANAGEMENT LAND USE
ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP ICE/SNOW SURFACE TEMP	L-1 L-34 L-0 L-160 L-160 L-165 L-1 L-1 L-0 L-0	CRYOSPHERE CRYOSPHERE CRYOSPHERE GLOBAL WEATHER GLOBAL WEATHER GLOBAL WEATHER CLIMATE CLIMATE CLIMATE CLIMATE	ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT SNOW PACK PROPERTIES RESEARCH SNOW HYDROLOGY WEATHER FORECASTS SEVERE STORM WARNINGS AND FORECASTS GENERAL CIRCULATION MODEL GENERAL CIRCULATION MODEL TRANSPORTATION
ICE/SNOW THICKNESS ICE/SNOW THICKNESS ICE/SNOW THICKNESS	L-1 L-1 L-1	CRYOSPHERE CLIMATE CLIMATE	ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT GENERAL CIRCULATION MODEL GENERAL CIRCULATION MODEL
ICEBERG DEFORMATION RATE ICEBERG DEFORMATION RATE	L-160 L-0	OCEAN PROCESSES GLOBAL WEATHER	COASTAL OCEAN CONDITION FORECASTING GLOBAL CONVECTIVE BALANCE
ICEBERG LOCATION ICEBERG LOCATION ICEBERG LOCATION ICEBERG LOCATION ICEBERG LOCATION ICEBERG LOCATION	L-34 L-34 L-34 L-34 L-160 L-78	CRYOSPHERE CRYOSPHERE CRYOSPHERE CRYOSPHERE OCEAN PROCESSES GLOBAL WEATHER CLIMATE	SEA ICE HAZARD MONITORING & PREDICTION ICEBERG DYNAMICS ICEBERG MOVEMENT SHIP ROUTING IN POLAR REGIONS OIL SITE SCHEDULING AND RESUPPLY COASTAL OCEAN CONDITION FORECASTING GLOBAL CONVECTIVE BALANCE GLOBAL TRANSPORTATION
ICEBERG SIZE	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
ICEBERG VOLUME DISCHARGE ICEBERG VOLUME DISCHARGE	L-34 L-34	CRYOSPHERE CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION ICEBERG DYNAMICS
INDUSTRY CENTER INDUSTRY CENTER INDUSTRY CENTER	L-0 L-0 L-0	SEVERE STORMS SEVERE STORMS SEVERE STORMS	FLOOD DAMAGE ASSESSMENT WIND DAMAGE ASSESSMENT WARNING AND EVACUATION SCHEMES

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
INFESTATION EXTENT	A-82	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-40	AGRICULTURE	CHOP INSECT DAMAGE
INFESTATION EXTENT	A-62	AGRICULTURE	FOREST CONDITION MONITORING
INFESTATION EXTENT	A-82	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-70	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-54	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-67	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-63	AGRICULTURE	FOREST INSECT DAMAGE
INFESTATION EXTENT	A-52	AGRICULTURE	FOREST INSECT DAMAGE
INFESTIOUS AGENTS	L-81	WATER RESOURCES	INDUSTRIAL USES
INFRARED RADIATION	L-31	AIR QUALITY	CO2 IMPACTS
INITIAL UPWARD MOMENTUM	L-28	SEVERE STORMS	CLOUD PHYSICS
IONOS TEMP PROF	L-160	GLOBAL WEATHER	WEATHER FORECASTS
IONOS TEMP PROF	L-160	GLOBAL WEATHER	WEATHER FORECASTS
IONOS TEMP PROF	L-0	GLOBAL WEATHER	AIR QUALITY
IONOS TEMP PROF	L-169	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
IRON	L-102	WATER RESOURCES	UPPER ATMOSPHERIC RESEARCH
IRON	L-102	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
IRON	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
IRRIGATION EXTENT	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
IRRIGATION EXTENT	L-167	LAND USE	LAND USE MANAGEMENT
IRRIGATION EXTENT	L-167	LAND USE	CARTOGRAPHY
IRRIGATION EXTENT	L-0	WATER QUALITY	POLLUTION MONITORING
ISENTHOPE TROUGH AMP	L-62	SEVERE STORMS	FLOOD DAMAGE ASSESSMENT
ISENTHOPE TROUGH AMP	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
ISENTHOPE TROUGH LOC	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
ISENTHOPE TROUGH LOC	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
JETSTREAM LOCATION	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
JETSTREAM LOCATION	L-62	GLOBAL WEATHER	AIRCRAFT ROUTING
JETSTREAM LOCATION	L-66	GLOBAL WEATHER	MID-ATLANTIC REGIONAL PROBLEMS

Table 4.4.1 Commonality of Parameters by Application (cont.)



SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
LAND ALBEDO	L-167	LAND USE	WETLAND MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	CROP YIELD MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	GRAZING LAND MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	GRASSLAND MANAGEMENT
LAND COVER TYPE	L-167	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
LAND ALBEDO	A-14	AGRICULTURE	SOIL MOISTURE APPLICATION STUDIES
LAND ALBEDO	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
LAND ALBEDO	L-167	AGRICULTURE	AGRICULTURE MANAGEMENT
LAND ALBEDO	L-167	AGRICULTURE	AGRICULTURE RESEARCH
LAND ALBEDO	A-11	AGRICULTURE	SOIL MOISTURE
LAND ALBEDO	A-14	AGRICULTURE	SOIL MOISTURE MODELING
LAND ALBEDO	A-14	AGRICULTURE	IRRIGATION MANAGEMENT
LAND ALBEDO	A-11	AGRICULTURE	SOIL EROSION MODELING
LAND ALBEDO	A-11	AGRICULTURE	SOIL EROSION MANAGEMENT
LAND ALBEDO	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT
LAND ALBEDO	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
LAND ALBEDO	L-167	AGRICULTURE	FOREST MANAGEMENT
LAND ALBEDO	L-167	AGRICULTURE	FOREST RESEARCH
LAND ALBEDO	L-167	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
LAND ALBEDO	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
LAND ALBEDO	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
LAND ALBEDO	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
LAND ALBEDO	L-103	AIR QUALITY	ATMOSPHERE RADIATIVE PROPERTY ASSESSMENT
LAND ALBEDO	L-160	GLOBAL WEATHER	WEATHER FORECASTS
LAND ALBEDO	L-160	GLOBAL WEATHER	WEATHER FORECASTS
LAND ALBEDO	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
LAND ALBEDO	L-161	CLIMATE	GLOBAL THERMAL BALANCE
LAND ALBEDO	L-163	CLIMATE	AGRICULTURE
LAND ALBEDO	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
LAND ALBEDO	L-163	CLIMATE	MILITARY OPERATION PLANNING
LAND COVER TYPE	L-167	LAND USE	WETLAND MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
LAND COVER TYPE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
LAND COVER TYPE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
LAND COVER TYPE	L-167	LAND USE	LAND USE MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	LAND USE MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	LAND USE MANAGEMENT
LAND COVER TYPE	L-167	LAND USE	LAND USE MANAGEMENT
LAND COVER TYPE	U-7	LAND USE	CARTOGRAPHY
LAND COVER TYPE	U-6	LAND USE	LAND USE MAPPING
LAND COVER TYPE	U-9	LAND USE	LAND USE MAPPING
LAND COVER TYPE	U-12	LAND USE	WILDLIFE HABITAT INFERENCES MAPPING
LAND COVER TYPE	U-30	LAND USE	WILDLIFE HABITAT INFERENCES MAPPING
LAND COVER TYPE	2-3	LAND USE	WILDLIFE HABITAT INFERENCES MAPPING
LAND COVER TYPE	2-3	LAND USE	WILDLIFE HABITAT INFERENCES MAPPING
LAND COVER TYPE	U-19	LAND USE	WILDLIFE HABITAT INFERENCES MAPPING
LAND COVER TYPE	U-2	LAND USE	THEMATIC MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4.		
PARAMETER	REFER	DISCIPLINE TITLE
LAND COVER TYPE	Z-11	VEGETATIVE COVER MAPPING
LAND COVER TYPE	Z-11	ECOSYSTEM MAPPING
LAND COVER TYPE	Z-3	ECOSYSTEM MAPPING
LAND COVER TYPE	Z-2	ECOSYSTEM MAPPING
LAND COVER TYPE	U-1	SURFACE WATER INVENTORY
LAND COVER TYPE	U-20	SURFACE WATER INVENTORY
LAND COVER TYPE	U-8	LAND USE IMPACT ASSESSMENT
LAND COVER TYPE	Z-5	RESOURCE IMPACT PLANNING
LAND COVER TYPE	U-9	SURFACE MINING DELINEATION
LAND COVER TYPE	U-33	SURFACE MINING DELINEATION
LAND COVER TYPE	U-24	SURFACE MINING DELINEATION
LAND COVER TYPE	U-15	URBAN AREA DELINEATION
LAND COVER TYPE	U-15	URBAN AREA DELINEATION
LAND COVER TYPE	U-9	QUESTION
LAND COVER TYPE	U-9	QUESTION
LAND COVER TYPE	U-14	WETLAND MANAGEMENT
LAND COVER TYPE	Z-11	WETLAND MANAGEMENT
LAND COVER TYPE	Z-2	WETLAND MANAGEMENT
LAND COVER TYPE	Z-10	VEGETATION CLASSIFICATION
LAND COVER TYPE	A-80	YIELD/PRODUCTIVITY STUDIES
LAND COVER TYPE	A-80	SOIL EROSION APPLICATIONS
LAND COVER TYPE	A-15	FOREST COVER TYPE MAPPING
LAND COVER TYPE	A-28	YIELD/PRODUCTIVITY STUDIES
LAND COVER TYPE	A-80	ACREAGE INVENTORY
LAND COVER TYPE	A-80	CROP TYPE INVENTORY
LAND COVER TYPE	A-25	CROP TYPE INVENTORY
LAND COVER TYPE	A-75	FIELD BOUNDARY DELINEATION
LAND COVER TYPE	A-24	FIELD BOUNDARY DELINEATION
LAND COVER TYPE	A-45	VEGETATIVE CONDITION MONITORING
LAND COVER TYPE	A-40	CROP INSECT DAMAGE
LAND COVER TYPE	A-69	ABIOTIC STRESSES ON CROPS
LAND COVER TYPE	A-69	ABIOTIC STRESSES ON CROPS
LAND COVER TYPE	A-69	ABIOTIC STRESSES ON CROPS
LAND COVER TYPE	A-80	ABIOTIC STRESSES ON CROPS
LAND COVER TYPE	A-80	ACREAGE INVENTORY
LAND COVER TYPE	A-80	YIELD MODELING
LAND COVER TYPE	A-4	SOIL MAPPING
LAND COVER TYPE	A-80	SOIL EROSION MAPPING
LAND COVER TYPE	A-80	SOIL EROSION MAPPING
LAND COVER TYPE	A-4	SOIL EROSION MODELING
LAND COVER TYPE	A-80	SOIL EROSION MANAGEMENT
LAND COVER TYPE	A-80	SOIL EROSION MANAGEMENT
LAND COVER TYPE	A-1	FOREST CLASSIFICATION
LAND COVER TYPE	A-15	FOREST COVER TYPE MAPPING
LAND COVER TYPE	A-81	FOREST COVER TYPE MAPPING
LAND COVER TYPE	A-58	FOREST DISEASES
LAND COVER TYPE	A-54	FOREST INSECT DAMAGE
LAND COVER TYPE	A-37	ABIOTIC STRESSES ON FORESTS
LAND COVER TYPE	A-28	RANGELAND PRODUCTIVITY MODELING
LAND COVER TYPE	L-105	WETLANDS MAPPING AND INVENTORY
LAND COVER TYPE		WATER RESOURCES

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

PARAMETER		SELECTION 4)		APPLICATION TITLE	
LAND COVER TYPE	REFER	DISCIPLINE TITLE			
LAND COVER TYPE	L-113	WATER RESOURCES		PLAYA LAKE INVENTORY	
LAND COVER TYPE	L-114	WATER RESOURCES		EVAPOTRANSPIRATION MODELING	
LAND COVER TYPE	L-0	WATER RESOURCES		CONSUMPTIVE USE STUDIES	
LAND COVER TYPE	L-101	WATER RESOURCES		RECREATIONAL USE STUDIES	
LAND COVER TYPE	L-160	WATER RESOURCES		WATERSHED MANAGEMENT	
LAND COVER TYPE	L-156	WATER RESOURCES		FLOOD AREA MAPPING	
LAND COVER TYPE	L-167	WATER QUALITY		POLLUTION MONITORING	
LAND COVER TYPE	L-0	WATER QUALITY		HAZARDOUS WATER POLLUTION WARNING	
LAND COVER TYPE	Z-11	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-11	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-11	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-17	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND COVER TYPE	Z-2	COASTAL ZONE		OPERATION/NAVIGATION ASSESSMENT	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING	
LAND COVER TYPE	Z-2	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING	
LAND COVER TYPE	Z-2	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING	
LAND COVER TYPE	Z-17	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING	
LAND COVER TYPE	Z-11	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL RESOURCES STUDIES	
LAND COVER TYPE	Z-2	COASTAL ZONE		COASTAL RESOURCES STUDIES	
LAND COVER TYPE	Z-11	COASTAL ZONE		COASTAL RESOURCES STUDIES	
LAND COVER TYPE	Z-2	COASTAL ZONE		COASTAL RESOURCES STUDIES	
LAND COVER TYPE	L-0	AIR QUALITY		THERMAL POLLUTANTS/TRACKING	
LAND COVER TYPE	L-30	AIR QUALITY		IMPACT ON TRAFFIC SAFETY	
LAND COVER TYPE	L-0	SEVERE STORMS		RECOVERY/AID PROCEDURE DEVELOPMENT	
LAND COVER TYPE	L-0	GLOBAL WEATHER		GLOBAL THERMAL BALANCE	
LAND COVER TYPE	L-65	CLIMATIC WEATHER		ATMOSPHERIC BLOCKING	
LAND COVER TYPE	G-3	GEODYNAMICS		ARCTIC AREA STUDIES	
LAND COVER TYPE	G-2	GEODYNAMICS		GEOLOGICAL MAPPING	
LAND COVER TYPE	G-17	GEODYNAMICS		GEOLOGICAL MAPPING	
LAND COVER TYPE	G-2	GEODYNAMICS		LANDFORM MAPPING	
LAND COVER TYPE	G-2	NON-RENEWABLE RESOURCES		GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION	
LAND COVER TYPE	G-2	NON-RENEWABLE RESOURCES		CONSTRUCTION/PLANT SITING	
LAND COVER TYPE	Z-10	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
LAND SURFACE TEMP	L-160	LAND USE		WETLAND MANAGEMENT	
LAND SURFACE TEMP	L-167	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING	
LAND SURFACE TEMP	L-167	LAND USE		SURFACE WATER INVENTORY	
LAND SURFACE TEMP	L-167	LAND USE		CROP YIELD MANAGEMENT	
LAND SURFACE TEMP	L-167	LAND USE		GRAZING LAND MANAGEMENT	
LAND SURFACE TEMP	L-167	LAND USE		GRASSLAND MANAGEMENT	
LAND SURFACE TEMP	L-167	LAND USE		LAND USE MANAGEMENT	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
LAND SURFACE TEMP	L-157	LAND USE	CARTOGRAPHY
LAND SURFACE TEMP	L-167	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
LAND SURFACE TEMP	L-167	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
LAND SURFACE TEMP	L-167	AGRICULTURE	AGRONOMY MANAGEMENT
LAND SURFACE TEMP	L-167	AGRICULTURE	AGRONOMY RESEARCH
LAND SURFACE TEMP	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT
LAND SURFACE TEMP	L-167	AGRICULTURE	CRAZING LANDS MANAGEMENT
LAND SURFACE TEMP	L-167	AGRICULTURE	FOREST MANAGEMENT
LAND SURFACE TEMP	L-167	AGRICULTURE	FOREST RESEAPCH
LAND SURFACE TEMP	L-157	AGRICULTURE	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
LAND SURFACE TEMP	L-167	WATER RESOURCES	SOIL MOISTURE STUDIES
LAND SURFACE TEMP	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
LAND SURFACE TEMP	L-160	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
LAND SURFACE TEMP	L-160	GLOBAL WEATHER	WEATHER FORECASTS
LAND SURFACE TEMP	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
LAND SURFACE TEMP	L-165	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
LAND SURFACE TEMP	L-0	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
LAND SURFACE TEMP	L-1	CLIMATE	AGRICULTURE
LAND SURFACE TEMP	L-161	CLIMATE	LAND USE
LAND SURFACE TEMP	L-167	CLIMATE	GENERAL CIRCULATION MODEL
LAND SURFACE TEMP	L-1	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
LAND SURFACE TEMP	L-0	CLIMATE	
LAND SURFACE TEMP	L-26	CLIMATE	
LAPSE RATE	L-51	AIR QUALITY	CO2 IMPACTS
LATENT HEAT	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
LATENT HEAT	L-54	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
LATENT HEAT	L-103	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
LATENT HEAT	L-73	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
LATENT HEAT	L-0	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
LATENT HEAT	L-65	GLOBAL WEATHER	ATMOSPHERIC BLOCKING
LEAF AREA INDEX	U-9	LAND USE	RESOURCE IMPACT PLANNING
LEAF AREA INDEX	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
LEAF AREA INDEX	A-40	AGRICULTURE	CROP INSECT DAMAGE
LEAF AREA INDEX	A-16	AGRICULTURE	FOREST INSECT DAMAGE
LEAF AREA INDEX	A-38	AGRICULTURE	FOREST INSECT DAMAGE
LEAF AREA INDEX	A-53	AGRICULTURE	FOREST INSECT DAMAGE
LEAF AREA INDEX	A-37	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
LEAF AREA INDEX	I-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
LEAF AREA INDEX	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
LEAF AREA INDEX	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
LEAF AREA INDEX	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
LEAF CANOPY TEMP	A-46	AGRICULTURE	ABIOTIC STRESSES ON FORESTS

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
LEAF CANOPY TEMP	A-46	AGRICULTURE	FOREST CONDITION MONITORING
LEAF MOISTURE CONTENT	A-48	AGRICULTURE	ABIOTIC STRESSES ON CROPS
LEAF REFLECTIVITY	A-23	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
LEAF REFLECTIVITY	A-3	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
LEAF REFLECTIVITY	A-45	AGRICULTURE	VEGETATIVE CONDITION MONITORING
LEAF REFLECTIVITY	A-51	AGRICULTURE	VEGETATIVE CONDITION MONITORING
LEAF REFLECTIVITY	A-50	AGRICULTURE	ABIOTIC STRESSES ON CROPS
LEAF REFLECTIVITY	A-48	AGRICULTURE	ABIOTIC STRESSES ON CROPS
LEAF REFLECTIVITY	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
L1	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
LIGHTNING DENSITY	L-13	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
LIGHTNING DURATION	L-13	SEVERE STORMS	LIGHTNING PHYSICS
LIGHTNING DURATION	L-0	SEVERE STORMS	REDUCING LIGHTNING
LIGHTNING DURATION	L-72	GLOBAL WEATHER	FOREST FIRE WEATHER
LIGHTNING FREQUENCY	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
LIGHTNING FREQUENCY	L-14	SEVERE STORMS	TORNADO PREDICTION & WARNING
LIGHTNING FREQUENCY	L-0	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
LIGHTNING FREQUENCY	L-13	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
LIGHTNING FREQUENCY	L-0	SEVERE STORMS	CORRELATION BETWEEN LIGHTNING&PRECIP
LIGHTNING FREQUENCY	L-0	SEVERE STORMS	REDUCING LIGHTNING
LIGHTNING FREQUENCY	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
LIGHTNING FREQUENCY	L-72	GLOBAL WEATHER	FOREST FIRE WEATHER
LIGHTNING LOCATION	L-13	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
LIGHTNING LOCATION	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
LIGHTNING LOCATION	L-72	GLOBAL WEATHER	FOREST FIRE WEATHER
LIGHTNING SPECTRAL RANGE	L-0	SEVERE STORMS	CORRELATION BETWEEN LIGHTNING&PRECIP
LINEAMENTS	Z-16	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
LINEAMENTS	Z-16	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
LINEAMENTS	Z-16	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
LINEAMENTS	G-10	GEODYNAMICS	EARTHQUAKE RISK ASSESSMENT
LINEAMENTS	G-7	GEODYNAMICS	REGIONAL STUDIES
LINEAMENTS	G-6	GEODYNAMICS	DESERT AREA STUDIES
LINEAMENTS	G-10	GEODYNAMICS	TECTONIC STUDIES
LINEAMENTS	G-12	GEODYNAMICS	TECTONIC STUDIES

Table 4.4.1 Commonality of Parameters by Application (cont.)



SECTION 4:

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Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
MANGANESE MANGANESE MANGANESE MANGANESE	L-102 L-102 L-102 L-102	WATER RESOURCES WATER RESOURCES WATER QUALITY WATER QUALITY	LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH
MARINE CEUID MARINE CEUID	L-160 L-10	OCEAN PROCESSES GLOBAL WEATHER	MARINE GEOLOGY GLOBAL CONVECTIVE BALANCE
MAX OVERSHOOTING HEIGHT	L-10	SEVERE STORMS	CLOUD GROWTH RATE RELATIONSHIP
MAXIMUM WIND SPEED MAXIMUM WIND SPEED MAXIMUM WIND SPEED	L-10 L-10 L-62	SEVERE STORMS SEVERE STORMS GLOBAL WEATHER	HURRICANE PREDICTION/WARNING WIND DAMAGE ASSESSMENT AIRCRAFT ROUTING
METAL CONCEN PROF	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
METAL CONCEN METAL CONCEN METAL CONCEN	L-10 L-10 L-160	WATER QUALITY AIR QUALITY OCEAN PROCESSES	MONITORING CONDITIONS OF LAKES HUMAN HEALTH HAZARDS OCEAN CONTAMINATION
METAL CONCEN PROF	L-167	LAND USE	SURFACE WATER INVENTORY
METAL TYPE METAL TYPE METAL TYPE METAL TYPE METAL TYPE	L-167 L-167 L-102 L-167 L-160	WATER RESOURCES WATER RESOURCES WATER QUALITY WATER QUALITY OCEAN PROCESSES	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT POLLUTANT WATER POLLUTANT EFFECTS ON BIOPROCESSES POLLUTANT EFFECTS ON BIOPROCESSES OCEAN CONTAMINATION
MG	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
MG0	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
MINERAL LOCATION MINERAL LOCATION MINERAL LOCATION	L-167 L-167 L-167	LAND USE LAND USE WATER RESOURCES	SOCIAL/POLITICAL/ECONOMIC MAPPING CARTOGRAPHY POLLUTANT WATER
MINERAL SUBSTANCES MINERAL SUBSTANCES	L-81 L-159	WATER RESOURCES NON-RENEWABLE RESOURCES	INDUSTRIAL USES STRUCTURAL GEOLOGIC MAPPING
MINING/DRILLING LAND USE	L-160	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

SELECTION 4,

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
MINING/DRILLING LAND USE	L-167	LAND USE	CARTOGRAPHY
MIXING CEILING	L-52	AIR QUALITY	POLLUTION MODELING
MIXING RATIO PROF	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
MOISTURE CONVERGENCE	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
MOISTURE CONVERGENCE	L-0	SEVERE STORMS	LOCAL STORM SURGE DETECTION
MOISTURE CONVERGENCE	L-0	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
MOISTURE TONGUE	L-14	SEVERE STORMS	SEVERE STORM DETECTION
NA	L-169	AIR QUALITY	TORNADO PREDICTION & WARNING
NA, MG, CA, FE, AL, NI, R, LI, NAO, MGO	L-169	GLOBAL WEATHER	ATMOSPHERIC COMPOSITION ASSESSMENT
NAO	L-160	AIR QUALITY	UPPER ATMOSPHERIC RESEARCH
NATURAL POLLUTANTS	L-110	WATER QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NATURAL POLLUTANTS	L-107	AIR QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
NET RADIATION	L-111	WATER RESOURCES	EFFECTIVENESS OF POLLUTION CONTROL
NET RADIATION	L-111	WATER RESOURCES	SOIL MOISTURE STUDIES
NET RADIATION	L-51	AIR QUALITY	ANTECEDENT PRECIP INDEX DETERMINATION
NET RADIATION	L-51	AIR QUALITY	CO2 IMPACTS
NET RADIATION	L-0	AIR QUALITY	CO2 IMPACTS
NET RADIATION	L-12	AIR QUALITY	TROPOSPHERIC AEROSOLS
NET RADIATION	L-160	GLOBAL WEATHER	WEATHER FORECASTS
NET RADIATION	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
NET RADIATION	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
NET RADIATION	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
NEUTRAL DENSITY	L-160	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
NI03	L-33	AIR QUALITY	IMPACT ON CLIMATE
NI03	L-1	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NI03	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NI03	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMUNALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
NH3	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NH3	L-171	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT
NH3	L-32	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT
NH3	L-33	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
NH3	L-171	AIR QUALITY	IMPACT ON CLIMATE
NH3	L-171	GLOBAL WEATHER	AIR QUALITY
NH3	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
NI	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NITRATES	L-107	AIR QUALITY	POLLUTION MODELING
NITROGEN	L-100	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
NITROGEN	L-0	WATER QUALITY	MONITORING CONDITIONS OF LAKES
NITROGEN	L-117	WATER QUALITY	WATER QUALITY ANALYSIS
NITROGEN	L-171	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
NITROGEN	L-108	AIR QUALITY	OZONE LEVEL DETERMINATION
NO	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NO	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NO	L-171	GLOBAL WEATHER	AIR QUALITY
NO	L-171	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
NON-SOIL RESIDUALS	A-13	AGRICULTURE	SOIL CLASSIFICATION
NON-SOIL RESIDUALS	A-14	AGRICULTURE	SOIL INHIBITORY APPLICATION
NON-SOIL RESIDUALS	A-13	AGRICULTURE	SOIL MAPPING
NON-SOIL RESIDUALS	A-14	AGRICULTURE	SOIL MOISTURE MAPPING
NON-SOIL RESIDUALS	A-14	AGRICULTURE	SOIL MOISTURE MODELING
NON-SOIL RESIDUALS	A-14	AGRICULTURE	IRRIGATION MANAGEMENT
NON-SOIL RESIDUALS	L-102	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
NON-SOIL RESIDUALS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
NOX	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
NOX	L-32	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
NOX	L-30	AIR QUALITY	IMPACT ON TRAFFIC SAFETY
NOX	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
NO2	L-171	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NO2	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
NO2	L-1	AIR QUALITY	ATMOSPHERIC CHEMISTRY ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
N02 N02 N02 N02	L-32 L-171 L-171 L-169	AIR QUALITY GLOBAL WEATHER GLOBAL WEATHER GLOBAL WEATHER	HUMAN HEALTH HAZARDS AIR QUALITY AIR QUALITY UPPER ATMOSPHERIC RESEARCH
NUTRIENTS CONCENT NUTRIENTS CONCENT NUTRIENTS CONCENT NUTRIENTS CONCENT	Z-2 Z-1 L-2 L-1 L-5	COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES
N20 N20 N20 N20 N20 N20	L-171 L-171 L-169 L-171 L-171 L-169	AIR QUALITY AIR QUALITY AIR QUALITY GLOBAL WEATHER GLOBAL WEATHER GLOBAL WEATHER	ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT UPPER ATMOSPHERIC RESEARCH
N205	L-169	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
0 0	L-171 L-169	GLOBAL WEATHER GLOBAL WEATHER	AIR QUALITY UPPER ATMOSPHERIC RESEARCH
0- 0-	L-171 L-169	AIR QUALITY AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT
OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT	L-0 L-57 L-0 L-66 L-200 L-0 L-78	CRYOSPHERE OCEAN PROCESSES GLOBAL WEATHER GLOBAL WEATHER GLOBAL WEATHER GLOBAL WEATHER CLIMATE	ICEDERG MOVEMENT FISHERY MANAGEMENT GLOBAL CONVECTIVE BALANCE SOUTHERN OCEANS OCEAN ATMOSPHERIC INTERACTION OCEAN ATMOSPHERIC INTERACTION TRANSPORTATION
OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT OCEAN CURRENT	Z-13 Z-13 Z-17 Z-17 Z-17	COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT COASTAL OCEAN CONDITION MONITORING OPERATION/NAVIGATION ASSESSMENT COASTAL, ESTUARY AND OCEAN ENGINEERING OCEAN CONTAMINATION

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE

		SELECTION 4:			
		DISCIPLINE TITLE	APPLICATION TITLE		
		OCEAN PROCESSES	OCEAN CONTAMINATION		
OCEAN DISEASE VECTOR TYPE	PARAMETER				
OCEAN MERIDIONAL HEAT FLUX		AIR QUALITY	CO2 IMPACTS		
OCEAN MIXING LAYER		AIR QUALITY	CO2 IMPACTS		
OCEAN SUBSURFACE TEMP		COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING		
OCEAN SURFACE CURRENT		OCEAN PROCESSES	FISHERY MANAGEMENT		
OCEAN SURFACE CURRENT AMP		LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING		
		WATER RESOURCES	TRANSPORTATION/NAVIGATION		
		WATER RESOURCES	POLLUTANT WATER		
		WATER QUALITY	POLLUTION MONITORING		
		COASTAL ZONE	COASTAL ENVIRONMENT MAPPING		
		CRYOSPHERE	RIVER AND LAKE ICE FORECAST		
		OCEAN PROCESSES	OCEAN CLIMATE		
		OCEAN PROCESSES	OCEAN INTERACTIONS		
		OCEAN PROCESSES	LIVING MARINE RESOURCES		
		OCEAN PROCESSES	OCEAN ENGINEERING		
		OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING		
		OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH		
		OCEAN PROCESSES	OCEAN CONTAMINATION		
		CLIMATE	OCEAN FISHERY		
OCEAN SURFACE CURRENT DIR		LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING		
		WATER RESOURCES	TRANSPORTATION/NAVIGATION		
		WATER RESOURCES	TRANSPORTATION/NAVIGATION		
		WATER QUALITY	POLLUTION MONITORING		
		COASTAL ZONE	COASTAL ENVIRONMENT MAPPING		
		CRYOSPHERE	RIVER AND LAKE ICE FORECAST		
		OCEAN PROCESSES	OCEAN CLIMATE		
		OCEAN PROCESSES	OCEAN INTERACTIONS		
		OCEAN PROCESSES	MARINE GEOLOGY		
		OCEAN PROCESSES	LIVING MARINE RESOURCES		
		OCEAN PROCESSES	OCEAN ENGINEERING		
		OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING		
		OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH		
		OCEAN PROCESSES	OCEAN CONTAMINATION		
		CLIMATE	OCEAN FISHERY		
OCEAN SURFACE CURRENT LOC		LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING		
		WATER RESOURCES	TRANSPORTATION/NAVIGATION		
		WATER QUALITY	POLLUTANT WATER		

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
OCEAN SURFACE CURRENT LOC	L-200	OCEAN PROCESSES	OCEAN CLIMATE
OCEAN SURFACE CURRENT LOC	L-0	OCEAN PROCESSES	OCEAN INTERACTIONS
OCEAN SURFACE CURRENT LOC	L-160	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN SURFACE CURRENT LOC	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE CURRENT LOC	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE CURRENT LOC	L-162	OCEAN PROCESSES	OCEAN CONDITION FORECASTING
OCEAN SURFACE CURRENT LOC	L-162	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
OCEAN SURFACE CURRENT LOC	L-162	OCEAN PROCESSES	OCEAN CONTAMINATION
OCEAN SURFACE CURRENT LOC	L-162	CLIMATE	FISHERY
OCEAN SURFACE PRESSURE	L-162	WATER RESOURCES	TRANSPORTATION/NAVIGATION
OCEAN SURFACE PRESSURE	L-104	WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING
OCEAN SURFACE PRESSURE	L-161	WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING
OCEAN SURFACE PRESSURE	L-57	OCEAN PROCESSES	FISHERY MANAGEMENT
OCEAN SURFACE PRESSURE	L-57	OCEAN PROCESSES	FISHERY MANAGEMENT
OCEAN SURFACE PRESSURE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE PRESSURE	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE PRESSURE	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
OCEAN SURFACE PRESSURE	L-160	OCEAN PROCESSES	SHALLOW WATER BATHYMETRY
OCEAN SURFACE PRESSURE	L-160	OCEAN PROCESSES	HURRICANE PREDICTION/WARNING
OCEAN SURFACE PRESSURE	L-0	SEVERE STORMS	WEATHER FORECASTS
OCEAN SURFACE PRESSURE	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE PRESSURE	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE PRESSURE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
OCEAN SURFACE PRESSURE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
OCEAN SURFACE PRESSURE	L-0	GLOBAL WEATHER	ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT
OCEAN SURFACE PRESSURE	L-200	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE PRESSURE	L-0	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE ROUGHNESS	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
OCEAN SURFACE ROUGHNESS	L-1	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
OCEAN SURFACE ROUGHNESS	Z-1	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
OCEAN SURFACE ROUGHNESS	L-3	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN SURFACE ROUGHNESS	L-3	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN SURFACE ROUGHNESS	L-2	COASTAL ZONE	COASTAL ESTUARY AND OCEAN ENGINEERING
OCEAN SURFACE ROUGHNESS	L-51	AIR QUALITY	CO2 IMPACTS
OCEAN SURFACE ROUGHNESS	L-57	OCEAN PROCESSES	FISHERY MANAGEMENT
OCEAN SURFACE TEMP	Z-13	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN SURFACE TEMP	Z-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN SURFACE TEMP	L-27	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN SURFACE TEMP	Z-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN SURFACE TEMP	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN SURFACE TEMP	L-5	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN SURFACE TEMP	L-160	OCEAN PROCESSES	SHALLOW WATER BATHYMETRY
OCEAN SURFACE TEMP	L-165	SEVERE STORMS	HURRICANE PREDICTION/WARNING
OCEAN SURFACE VELOCITY PROF	L-160	WATER QUALITY	OIL SPILL AND WASTE MONITORING

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

SELECTION 4,

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
OCEAN SURFACE VELOCITY PROF	L-27	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN SURFACE VELOCITY	L-11	OCEAN PROCESSES	OCEAN INTERACTIONS
OCEAN SURFACE WIND DIR	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
OCEAN SURFACE WIND DIR	L-34	CRYOSPHERE	POLAR ICE MOTION
OCEAN SURFACE WIND DIR	L-34	CRYOSPHERE	SEA ICE MOVEMENT
OCEAN SURFACE WIND DIR	L-0	AIR QUALITY	TROPOSPHERIC AEROSOLS
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	TROPOSPHERIC AEROSOLS
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	OCEAN BIOLOGY
OCEAN SURFACE WIND DIR	L-200	OCEAN PROCESSES	OCEAN DYNAMICS
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	OCEAN CLIMATE
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	OCEAN CURRENT STUDIES
OCEAN SURFACE WIND DIR	L-59	OCEAN PROCESSES	OCEAN CURRENT STUDIES
OCEAN SURFACE WIND DIR	L-25	OCEAN PROCESSES	MARINE SEARCH AND RESCUE
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	TRAFFIC MANAGEMENT
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	OCEAN CURRENT PREDICTION
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	OCEAN ROLE IN THE CLIMATIC CHANGE
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	CHEMICAL OCEAN RESEARCH
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN SURFACE WIND DIR	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE WIND DIR	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE WIND DIR	L-162	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
OCEAN SURFACE WIND DIR	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
OCEAN SURFACE WIND DIR	L-155	OCEAN PROCESSES	OUTTER CONTINENTAL ENERGY ASSESSMENT
OCEAN SURFACE WIND DIR	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE WIND DIR	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE WIND DIR	L-162	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
OCEAN SURFACE WIND DIR	L-162	GLOBAL WEATHER	AIR QUALITY
OCEAN SURFACE WIND DIR	L-155	GLOBAL WEATHER	OCEAN SURFACE LAYER PROCESSES
OCEAN SURFACE WIND DIR	L-155	GLOBAL WEATHER	GENERAL OCEAN CIRCULATION
OCEAN SURFACE WIND DIR	L-155	GLOBAL WEATHER	MONSOON EXPERIMENT
OCEAN SURFACE WIND DIR	L-155	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND DIR	L-162	CLIMATE	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND DIR	L-162	CLIMATE	FISHERY
OCEAN SURFACE WIND DIR	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
OCEAN SURFACE WIND DIR	L-163	CLIMATE	MILITARY OPERATION PLANNING
OCEAN SURFACE WIND LOC	L-155	OCEAN PROCESSES	OCEAN CURRENT PREDICTION
OCEAN SURFACE WIND SPEED	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
OCEAN SURFACE WIND SPEED	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
OCEAN SURFACE WIND SPEED	L-160	WATER RESOURCES	SNOWMELT MONITORING
OCEAN SURFACE WIND SPEED	L-162	WATER RESOURCES	TRANSPORTATION/NAVIGATION
OCEAN SURFACE WIND SPEED	L-162	WATER RESOURCES	POLLUTANT WATER
OCEAN SURFACE WIND SPEED	L-160	WATER QUALITY	POLLUTION MONITORING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER.	DISCIPLINE TITLE	APPLICATION TITLE
OCEAN SURFACE WIND SPEED	L-162	WATER QUALITY	POLLUTION MONITORING
OCEAN SURFACE WIND SPEED	L-0	WATER QUALITY	OIL SPILL AND WASTE MONITORING
OCEAN SURFACE WIND SPEED	L-34	CRYOSPHERE	POLAR ICE MOTION
OCEAN SURFACE WIND SPEED	L-34	CRYOSPHERE	SEA ICE MOVEMENT
OCEAN SURFACE WIND SPEED	L-0	AIR QUALITY	TROPOSPHERIC AEROSOLS
OCEAN SURFACE WIND SPEED	L-159	OCEAN PROCESSES	OCEAN BIOLOGY
OCEAN SURFACE WIND SPEED	L-159	OCEAN PROCESSES	OCEAN DYNAMICS
OCEAN SURFACE WIND SPEED	L-1	OCEAN PROCESSES	MARINE GEODESY AND SURFACE TOPOGRAPHY
OCEAN SURFACE WIND SPEED	L-200	OCEAN PROCESSES	OCEAN CLIMATE
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN CURRENT STUDIES
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN CURRENT STUDIES
OCEAN SURFACE WIND SPEED	L-0	OCEAN PROCESSES	MARINE SEARCH AND RESCUE
OCEAN SURFACE WIND SPEED	L-235	OCEAN PROCESSES	TRAFFIC MANAGEMENT
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN CURRENT PREDICTION
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN ROLE IN THE CLIMATIC CHANGE
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN ROLE IN THE CLIMATIC CHANGE
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	CHEMICAL OCEAN RESEARCH
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN SURFACE WIND SPEED	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE WIND SPEED	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN SURFACE WIND SPEED	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN SURFACE WIND SPEED	L-161	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
OCEAN SURFACE WIND SPEED	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
OCEAN SURFACE WIND SPEED	L-155	OCEAN PROCESSES	OCEAN CONTAMINATION
OCEAN SURFACE WIND SPEED	L-162	OCEAN PROCESSES	OUTTER CONTINENTAL ENERGY ASSESSMENT
OCEAN SURFACE WIND SPEED	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE WIND SPEED	L-162	GLOBAL WEATHER	WEATHER FORECASTS
OCEAN SURFACE WIND SPEED	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
OCEAN SURFACE WIND SPEED	L-162	GLOBAL WEATHER	AIR QUALITY
OCEAN SURFACE WIND SPEED	L-66	GLOBAL WEATHER	OCEAN SURFACE LAYER PROCESSES
OCEAN SURFACE WIND SPEED	L-156	GLOBAL WEATHER	GENERAL OCEAN CIRCULATION
OCEAN SURFACE WIND SPEED	L-155	GLOBAL WEATHER	MONSOON EXPERIMENT
OCEAN SURFACE WIND SPEED	L-1	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-11	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-155	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-155	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-162	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-162	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
OCEAN SURFACE WIND SPEED	L-163	CLIMATE	FISHERY
OCEAN SURFACE WIND SPEED	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
OCEAN SURFACE WIND SPEED	L-0	CLIMATE	MILITARY OPERATION PLANNING
OCEAN SURFACE WIND SPEED	L-0	CLIMATE	CONSTRUCTION
OCEAN TEMP PROF	L-162	WATER RESOURCES	TRANSPORTATION NAVIGATION
OCEAN TEMP PROF	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN TEMP PROF	L-27	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER.	DISCIPLINE TITLE	APPLICATION TITLE
OCEAN WAVE HEIGHT	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN WAVE HEIGHT	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN WAVE HEIGHT	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
OCEAN WAVE HEIGHT	L-159	OCEAN PROCESSES	OCEAN BIOLOGY
OCEAN WAVE HEIGHT	L-0	OCEAN PROCESSES	OCEAN INTERACTIONS
OCEAN WAVE HEIGHT	L-0	OCEAN PROCESSES	MARINE GEDDES AND SURFACE TOPOGRAPHY
OCEAN WAVE HEIGHT	L-23	OCEAN PROCESSES	MARINE SEARCH AND RESCUE
OCEAN WAVE HEIGHT	L-155	OCEAN PROCESSES	OCEAN CURRENT
OCEAN WAVE HEIGHT	L-162	OCEAN PROCESSES	OCEAN CURRENT PREDICTION
OCEAN WAVE HEIGHT	L-162	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN WAVE HEIGHT	L-162	OCEAN PROCESSES	LIVING MARINE RESOURCES
OCEAN WAVE HEIGHT	L-161	OCEAN PROCESSES	OCEAN ENGINEERING
OCEAN WAVE HEIGHT	L-162	OCEAN PROCESSES	COASTAL OCEAN CONDITION FURCASTING
OCEAN WAVE HEIGHT	L-162	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
OCEAN WAVE HEIGHT	L-155	OCEAN PROCESSES	OCEAN CONTAMINATION
OCEAN WAVE HEIGHT	L-1	SEVIRE STORMS	OUTTER CONTINENTAL ENERGY ASSESSMENT
OCEAN WAVE HEIGHT	L-162	CLIMATE	LOCAL STORM SURGE DETECTION
OCEAN WAVE HEIGHT	L-0	CLIMATE	FISHERY
OCEAN WAVE HEIGHT	L-0	CLIMATE	CONSTRUCTION
OCEAN WAVE HEIGHT	L-0	CLIMATE	TRANSPORTATION
OCEAN WAVE LENGTH	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
OCEAN WAVE LENGTH	L-4	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-54	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-27	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-27	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
OCEAN WAVE LENGTH	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
OCEAN WAVE LENGTH	L-155	OCEAN PROCESSES	COASTAL RESOURCES STUDIES
OCEAN WAVE LENGTH	L-1	OCEAN PROCESSES	OCEAN BIOLOGY
OCEAN WAVE LENGTH	L-162	OCEAN PROCESSES	OCEAN INTERACTIONS
OCEAN WAVE LENGTH	L-155	OCEAN PROCESSES	MARINE GEOLOGY
OCEAN WAVE LENGTH	L-155	OCEAN PROCESSES	OUTTER CONTINENTAL ENERGY ASSESSMENT
OCEAN WAVE LENGTH	L-161	WATER RESOURCES	POLLUTANT WATER
OCEAN WAVE LENGTH	L-162	WATER QUALITY	POLLUTION MONITORING
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-55	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-53	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-56	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
OCEAN WAVE LENGTH	L-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
OCEAN WAVE LENGTH	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE		SELECTION 41		APPLICATION TITLE	
PARAMETER	REFER	DISCIPLINE TITLE		ATMOSPHERIC COMPOSITION ASSESSMENT	
OH-	L-169	AIR QUALITY			
OIL DENSITY	L-160	WATER QUALITY		OIL SPILL AND WASTE MONITORING	
OIL DISTRIBUTION	L-160	WATER QUALITY		OIL SPILL AND WASTE MONITORING	
OIL PLATFORM LOCATION OIL PLATFORM LOCATION	L-0 L-34	CRYOSPHERE CRYOSPHERE		SEA ICE HAZARD MONITORING & PREDICTION OIL SITE SCHEDULING AND RESUPPLY	
OIL THICKNESS	L-160	WATER QUALITY		OIL SPILL AND WASTE MONITORING	
ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER ORGANIC CARBON IN WATER	L-102 L-102 L-102 L-0 L-102 L-102 L-102 L-104	WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY WATER QUALITY		LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH MONITORING CONDITIONS OF LAKES LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH	
ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS ORGANIC MATERIALS	L-167 L-167 L-167 L-81 L-167 L-102 L-102 L-102 L-167	LAND USE AGRICULTURE AGRICULTURE WATER RESOURCES WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY		CARTOGRAPHY SOILS RESEARCH RANGELAND CONDITION MONITORING LAKE CLASSIFICATION RESEARCH INDUSTRIAL USES POLLUTANT WATER LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH POLLUTANT EFFECTS ON BIOPROCESSES	
ORGANICS	L-107	AIR QUALITY		POLLUTION MODELING	
OVERSHOOTING CYCLE	L-0	SEVERE STORMS		CLOUD GROWTH RATE RELATIONSHIP	
OXYGEN OXYGEN OXYGEN OXYGEN OXYGEN OXYGEN OXYGEN OXYGEN	L-167 L-102 L-102 L-167 L-167 L-102 L-102 L-102 L-167	WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY WATER QUALITY		LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

PARAMETER	REFER	DISCIPLINE TITLE	SELECTION 4,	APPLICATION TITLE
OXYGEN	L-102	WATER QUALITY		LAKE CLASSIFICATION RESEARCH
OXYGEN	L-167	WATER QUALITY		LAKE CLASSIFICATION RESEARCH
OXYGEN	L-117	WATER QUALITY		WATER QUALITY ANALYSIS
OXYGEN	L-60	CLIMATE		HISTORICAL DATA ANALYSIS
OZONE	L-1	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
OZONE	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
OZONE	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
OZONE	L-169	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
OZONE	L-1	AIR QUALITY		ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
OZONE	L-171	AIR QUALITY		ATMOSPHERIC CHEMISTRY ASSESSMENT
OZONE	L-108	AIR QUALITY		ATMOSPHERIC CHEMISTRY ASSESSMENT
OZONE	L-169	AIR QUALITY		OZONE LEVEL DETERMINATION
OZONE	L-32	AIR QUALITY		OZONE LEVEL DETERMINATION
OZONE	L-32	AIR QUALITY		EFFECTS OF AIR POLLUTION ON AGRICULTURE
OZONE	L-32	AIR QUALITY		EFFECTS OF AIR POLLUTION ON AGRICULTURE
OZONE	L-33	GLOBAL WEATHER		HUMAN HEALTH HAZARDS
OZONE	L-171	GLOBAL WEATHER		IMPACT ON CLIMATE
OZONE	L-169	GLOBAL WEATHER		AIR QUALITY
OZONE	L-161	CLIMATE		AIR QUALITY
OZONE	L-77	CLIMATE		UPPER ATMOSPHERIC RESEARCH
OZONE	L-12	AIR QUALITY		ACRICULTURE
OZONE	L-12	AIR QUALITY		RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
OZONE PROF	L-12	AIR QUALITY		OZONE LEVEL DETERMINATION
OZONE PROF	L-76	CLIMATE		OZONE LEVEL DETERMINATION
OZONE PROF	L-26	CLIMATE		RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
OZONE PROF	L-26	CLIMATE		RADIATION AND THE GLOBAL ENERGY BALANCE
PARTICULATES	L-117	WATER QUALITY		WATER QUALITY ANALYSIS
PARTICULATES	L-13	COASTAL ZONE		OPERATION/NAVIGATION ASSESSMENT
PARTICULATES	L-32	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING
PARTICULATES	L-0	AIR QUALITY		HUMAN HEALTH HAZARDS
PARTICULATES	L-0	AIR QUALITY		IMPACT ON TRAFFIC SAFETY
PB	L-171	AIR QUALITY		ATMOSPHERIC COMPOSITION ASSESSMENT
PB	L-171	GLOBAL WEATHER		AIR QUALITY
PEAK CURRENTS	L-13	SEVERE STORMS		LIGHTNING PHYSICS
PESTICIDE POLLUTANT EXTENT	L-160	WATER QUALITY		OIL SPILL AND WASTE MONITORING
PESTICIDE POLLUTANT EXTENT	L-2	WATER QUALITY		OIL SPILL AND WASTE MONITORING
PESTICIDE POLLUTANT EXTENT	L-160	OCEAN PROCESSES		FISH YIELD MANAGEMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PESTICIDE POLLUTANT EXTENT	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
PESTICIDE POLLUTANT EXTENT	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
PESTICIDE POLLUTANT TYPE	L-160	LAND USE	WETLAND MANAGEMENT
PESTICIDE POLLUTANT TYPE	L-167	WATER RESOURCES	POLLUTANT WATER
PESTICIDE POLLUTANT TYPE	L-160	WATER QUALITY	OIL SPILL AND WASTE MONITORING
PESTICIDE POLLUTANT TYPE	L-2	WATER QUALITY	OIL SPILL AND WASTE MONITORING
PESTICIDE POLLUTANT TYPE	L-2	WATER QUALITY	POLLUTION CONTROL
PESTICIDE POLLUTANT TYPE	L-160	WATER QUALITY	POLLUTION CONTROL
PESTICIDE POLLUTANT TYPE	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT
PESTICIDE POLLUTANT TYPE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
PESTICIDE POLLUTANT TYPE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
PETROLEUM POLLUTANT EXTENT	L-160	LAND USE	WETLAND MANAGEMENT
PETROLEUM POLLUTANT EXTENT	L-167	WATER RESOURCES	SURFACE WATER INVENTORY
PETROLEUM POLLUTANT EXTENT	L-167	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
PETROLEUM POLLUTANT EXTENT	L-110	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
PETROLEUM POLLUTANT EXTENT	L-110	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
PETROLEUM POLLUTANT EXTENT	L-0	WATER QUALITY	OIL SPILL AND WASTE MONITORING
PETROLEUM POLLUTANT EXTENT	L-0	WATER QUALITY	OIL SPILL AND WASTE MONITORING
PETROLEUM POLLUTANT EXTENT	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
PETROLEUM POLLUTANT EXTENT	L-160	OCEAN PROCESSES	POLLUTANT EFFECTS ON BIOPROCESSES
PETROLEUM POLLUTANT EXTENT	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT
PETROLEUM POLLUTANT EXTENT	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
PETROLEUM POLLUTANT EXTENT	L-155	OCEAN PROCESSES	OCEAN CONTAMINATION
PETROLEUM POLLUTANT EXTENT	L-155	OCEAN PROCESSES	OUTER CONTINENTAL ENERGY ASSESSMENT
PETROLEUM POLLUTANT THICKNESS	L-167	LAND USE	WETLAND MANAGEMENT
PETROLEUM POLLUTANT THICKNESS	L-167	WATER RESOURCES	SURFACE WATER INVENTORY
PETROLEUM POLLUTANT THICKNESS	L-110	WATER QUALITY	POLLUTANT WATER
PETROLEUM POLLUTANT THICKNESS	L-160	OCEAN PROCESSES	PHYSICS OF WATER BORNE POLLUTANTS
PETROLEUM POLLUTANT THICKNESS	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
PETROLEUM POLLUTANT THICKNESS	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
PETROLEUM POLLUTANT TYPE	L-160	LAND USE	WETLAND MANAGEMENT
PETROLEUM POLLUTANT TYPE	L-167	WATER RESOURCES	SURFACE WATER INVENTORY
PETROLEUM POLLUTANT TYPE	L-167	WATER QUALITY	POLLUTANT WATER
PETROLEUM POLLUTANT TYPE	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT
PETROLEUM POLLUTANT TYPE	L-100	OCEAN PROCESSES	LIVING MARINE RESOURCES
PETROLEUM POLLUTANT TYPE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
PETROLEUM POLLUTANT EXTENT	L-100	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
PH-BALANCE	L-167	LAND USE	WETLAND MANAGEMENT
PH-BALANCE	L-167	WATER RESOURCES	SURFACE WATER INVENTORY
PH-BALANCE	L-167	WATER RESOURCES	PHYSICS OF WATER BORNE POLLUTANTS
PH-BALANCE	L-113	WATER RESOURCES	WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
PH-BALANCE	L-113	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
PH-BALANCE	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PHYTOPLANKTON TYPE	L-167	WATER RESOURCES	WATER RESOURCES EVAL FOR CROP RESOURCES MGT
PHYTOPLANKTON TYPE	L-167	WATER RESOURCES	POLLUTANT WATER
PHYTOPLANKTON TYPE	L-160	WATER QUALITY	POLLUTION CONTROL
PHYTOPLANKTON TYPE	L-2	WATER QUALITY	POLLUTION CONTROL
PHYTOPLANKTON TYPE	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
PHYTOPLANKTON TYPE	L-102	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
PHYTOPLANKTON TYPE	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
PHYTOPLANKTON TYPE	L-167	OCEAN PROCESSES	FISH YIELD MANAGEMENT
PHYTOPLANKTON TYPE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
PLANT AREAL EXTENT	A-28	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT AREAL EXTENT	A-7	AGRICULTURE	ACREAGE INVENTORY
PLANT AREAL EXTENT	A-8	AGRICULTURE	ACREAGE INVENTORY
PLANT AREAL EXTENT	A-29	AGRICULTURE	RANGELAND CLASSIFICATIONS
PLANT AREAL EXTENT	L-105	WATER RESOURCES	RANGELAND PRODUCTIVITY MODELING
PLANT AREAL EXTENT	L-160	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
PLANT AREAL EXTENT	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
PLANT AREAL EXTENT	L-100	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
PLANT AREAL EXTENT	L-160	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
PLANT AREAL EXTENT	L-100	WATER RESOURCES	FLOOD AREA MAPPING
PLANT AREAL EXTENT	L-160	WATER RESOURCES	FLOOD AREA MAPPING
PLANT AREAL EXTENT	L-0	WATER RESOURCES	FLOOD DAMAGE ASSESSMENT
PLANT CONDITION	L-0	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
PLANT CONDITION	A-57	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
PLANT CONDITION	A-46	AGRICULTURE	ABIOTIC STRESSES ON RANGELANDS
PLANT CONDITION	A-64	AGRICULTURE	ABIOTIC STRESSES ON RANGELANDS
PLANT CONDITION	A-02	AGRICULTURE	FOREST INSECT DAMAGE
PLANT DENSITY	L-160	LAND USE	WETLAND MANAGEMENT
PLANT DENSITY	L-0	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
PLANT DENSITY	L-167	LAND USE	LAND USE MANAGEMENT
PLANT DENSITY	U-9	LAND USE	WILDLIFE HABITAT INTERFERENCE MAPPING
PLANT DENSITY	U-33	LAND USE	SURFACE MINING DELINEATION
PLANT DENSITY	U-24	LAND USE	SURFACE MINING DELINEATION
PLANT DENSITY	U-26	LAND USE	SURFACE MINING DELINEATION
PLANT DENSITY	U-9	LAND USE	QUESTION
PLANT DENSITY	A-39	AGRICULTURE	VEGETATION CLASSIFICATION
PLANT DENSITY	A-80	AGRICULTURE	VEGETATION CLASSIFICATION
PLANT DENSITY	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT DENSITY	A-80	AGRICULTURE	SOIL EROSION APPLICATIONS
PLANT DENSITY	A-15	AGRICULTURE	FOREST COVER TYPE MAPPING
PLANT DENSITY	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT DENSITY	A-29	AGRICULTURE	RANGELANDS INVENTORY
PLANT DENSITY	A-29	AGRICULTURE	RANGELAND CONDITION MONITORING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

PARAMETER	REFER	DISCIPLINE TITLE	SELECTION 4:	APPLICATION TITLE
PLANT DENSITY	A-28	AGRICULTURE		RANGELAND CONDITION MONITORING
PLANT DENSITY	L-167	AGRICULTURE		RANGELAND CONDITION MONITORING
PLANT DENSITY	A-28	AGRICULTURE		YIELD/PRODUCTIVITY STUDIES
PLANT DENSITY	A-27	AGRICULTURE		YIELD/PRODUCTIVITY STUDIES
PLANT DENSITY	A-36	AGRICULTURE		FOREST TYPE DELINEATION
PLANT DENSITY	A-71	AGRICULTURE		FOREST TYPE DELINEATION
PLANT DENSITY	A-57	AGRICULTURE		ABIOTIC STRESSES ON FORESTS
PLANT DENSITY	L-0	AGRICULTURE		ACREAGE INVENTORY
PLANT DENSITY	A-39	AGRICULTURE		ACREAGE INVENTORY
PLANT DENSITY	A-23	AGRICULTURE		SPECTRAL SEPARABILITY OF CROPS
PLANT DENSITY	A-45	AGRICULTURE		VEGETATIVE CONDITION MONITORING
PLANT DENSITY	A-40	AGRICULTURE		CROP INSECT DAMAGE
PLANT DENSITY	A-74	AGRICULTURE		ABIOTIC STRESSES ON CROPS
PLANT DENSITY	A-5	AGRICULTURE		BIOMASS ESTIMATION
PLANT DENSITY	A-6	AGRICULTURE		YIELD MODELING
PLANT DENSITY	L-167	AGRICULTURE		AGRONOMY MANAGEMENT
PLANT DENSITY	L-167	AGRICULTURE		AGRONOMY RESEARCH
PLANT DENSITY	A-12	AGRICULTURE		SOIL MAPING
PLANT DENSITY	A-80	AGRICULTURE		SOIL EROSION MAPPING
PLANT DENSITY	A-80	AGRICULTURE		SOIL EROSION MODELING
PLANT DENSITY	A-80	AGRICULTURE		SOIL EROSION MANAGEMENT
PLANT DENSITY	A-80	AGRICULTURE		SOIL EROSION MANAGEMENT
PLANT DENSITY	A-35	AGRICULTURE		FOREST CLASSIFICATIONS
PLANT DENSITY	A-36	AGRICULTURE		FOREST COVER TYPE MAPPING
PLANT DENSITY	A-34	AGRICULTURE		FOREST CONDITION MONITORING
PLANT DENSITY	A-57	AGRICULTURE		FOREST CONDITION MONITORING
PLANT DENSITY	A-71	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-62	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-57	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-60	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-58	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-59	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-59	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-68	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-68	AGRICULTURE		FOREST DISEASES
PLANT DENSITY	A-82	AGRICULTURE		FOREST INSECT DAMAGE
PLANT DENSITY	A-70	AGRICULTURE		FOREST INSECT DAMAGE
PLANT DENSITY	A-38	AGRICULTURE		FOREST INSECT DAMAGE
PLANT DENSITY	A-61	AGRICULTURE		FOREST INSECT DAMAGE
PLANT DENSITY	A-63	AGRICULTURE		FOREST INSECT DAMAGE
PLANT DENSITY	A-73	AGRICULTURE		ABIOTIC STRESSES ON FORESTS
PLANT DENSITY	A-73	AGRICULTURE		ABIOTIC STRESSES ON FORESTS
PLANT DENSITY	A-37	AGRICULTURE		ABIOTIC STRESSES ON FORESTS
PLANT DENSITY	L-167	AGRICULTURE		GRASSLANDS MANAGEMENT
PLANT DENSITY	L-167	AGRICULTURE		GRASSLANDS MANAGEMENT
PLANT DENSITY	L-167	AGRICULTURE		FOREST MANAGEMENT
PLANT DENSITY	L-167	AGRICULTURE		FOREST RESEARCH
PLANT DENSITY	A-29	AGRICULTURE		RANGELAND CLASSIFICATIONS
PLANT DENSITY	A-27	AGRICULTURE		RANGELAND PRODUCTIVITY MODELING
PLANT DENSITY	A-30	AGRICULTURE		RANGELAND PRODUCTIVITY MODELING
PLANT DENSITY	L-167	AGRICULTURE		WETLANDS MAPPING AND INVENTORY
PLANT DENSITY		WATER RESOURCES		

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4:

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PLANT DENSITY	L-111	WATER RESOURCES	SOIL MOISTURE STUDIES
PLANT DENSITY	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
PLANT DENSITY	L-100	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT
PLANT DENSITY	L-167	WATER RESOURCES	IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
PLANT DENSITY	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
PLANT DENSITY	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
PLANT DENSITY	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
PLANT DENSITY	L-0	AIR QUALITY	EFFECTS OF AIR POLLUTION ON AGRICULTURE
PLANT DENSITY	L-167	AGRICULTURE	ACREAGE INVENTORY
PLANT DISEASE EXTENT	L-167	LAND USE	LAND USE MANAGEMENT
PLANT DISEASE EXTENT	L-167	LAND USE	CARTOGRAPHY
PLANT DISEASE EXTENT	A-62	AGRICULTURE	RANGELAND CONDITION MONITORING
PLANT DISEASE EXTENT	L-167	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
PLANT DISEASE EXTENT	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PLANT DISEASE EXTENT	A-62	AGRICULTURE	AGRONOMY RESEARCH
PLANT DISEASE EXTENT	A-60	AGRICULTURE	FOREST CONDITION MONITORING
PLANT DISEASE EXTENT	A-58	AGRICULTURE	FOREST DISEASES
PLANT DISEASE EXTENT	A-39	AGRICULTURE	FOREST DISEASES
PLANT DISEASE EXTENT	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
PLANT DISEASE EXTENT	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PLANT DISEASE EXTENT	L-167	AGRICULTURE	FOREST MANAGEMENT
PLANT DISEASE EXTENT	L-167	AGRICULTURE	FOREST RESEARCH
PLANT DISEASE TYPE	L-167	LAND USE	LAND USE MANAGEMENT
PLANT DISEASE TYPE	L-167	LAND USE	CARTOGRAPHY
PLANT DISEASE TYPE	A-62	AGRICULTURE	RANGELAND CONDITION MONITORING
PLANT DISEASE TYPE	L-167	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
PLANT DISEASE TYPE	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PLANT DISEASE TYPE	L-160	AGRICULTURE	AGRONOMY RESEARCH
PLANT DISEASE TYPE	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
PLANT DISEASE TYPE	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PLANT DISEASE TYPE	L-167	AGRICULTURE	FOREST MANAGEMENT
PLANT DISEASE TYPE	L-167	AGRICULTURE	FOREST RESEARCH
PLANT GROWTH RATE	L-0	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
PLANT GROWTH RATE	A-57	AGRICULTURE	RANGELAND CONDITION MONITORING
PLANT GROWTH RATE	L-167	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
PLANT GROWTH RATE	L-167	AGRICULTURE	ACREAGE INVENTORY
PLANT GROWTH RATE	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PLANT GROWTH RATE	A-57	AGRICULTURE	AGRONOMY RESEARCH
PLANT GROWTH RATE	A-57	AGRICULTURE	FOREST CONDITION MONITORING
PLANT GROWTH RATE	L-167	AGRICULTURE	FOREST DISEASES
PLANT GROWTH RATE	L-167	AGRICULTURE	GRAZING LANDS MANAGEMENT
PLANT GROWTH RATE	L-167	AGRICULTURE	FOREST MANAGEMENT
PLANT GROWTH RATE	L-167	AGRICULTURE	FOREST RESEARCH

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	DISCIPLINE TITLE	APPLICATION TITLE
PLANT GROWTH STAGE	LAND USE	WETLAND MANAGEMENT
PLANT GROWTH STAGE	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
PLANT GROWTH STAGE	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
PLANT GROWTH STAGE	LAND USE	LAND USE MANAGEMENT
PLANT GROWTH STAGE	LAND USE	LAND USE MANAGEMENT
PLANT GROWTH STAGE	LAND USE	CARTOGRAPHY
PLANT GROWTH STAGE	AGRICULTURE	SOIL CLASSIFICATION
PLANT GROWTH STAGE	AGRICULTURE	CROP PHENOLOGY STUDIES
PLANT GROWTH STAGE	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT GROWTH STAGE	AGRICULTURE	FURROW PHENOLOGY STUDIES
PLANT GROWTH STAGE	AGRICULTURE	RANGELANDS INVENTORY
PLANT GROWTH STAGE	AGRICULTURE	RANGELAND CONDITION MONITORING
PLANT GROWTH STAGE	AGRICULTURE	RANGELAND CONDITION MONITORING
PLANT GROWTH STAGE	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT GROWTH STAGE	AGRICULTURE	FURROW TYPE DELINEATION
PLANT GROWTH STAGE	AGRICULTURE	ABiotic STRESSES ON RANGELANDS
PLANT GROWTH STAGE	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
PLANT GROWTH STAGE	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
PLANT GROWTH STAGE	AGRICULTURE	PHENOLOGY MODELING
PLANT GROWTH STAGE	AGRICULTURE	ABiotic STRESSES ON CROPS
PLANT GROWTH STAGE	AGRICULTURE	AGRONOMY MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	AGRONOMY RESEARCH
PLANT GROWTH STAGE	AGRICULTURE	AGRONOMY RESEARCH
PLANT GROWTH STAGE	AGRICULTURE	SOIL MAPPING
PLANT GROWTH STAGE	AGRICULTURE	FOREST CLASSIFICATIONS
PLANT GROWTH STAGE	AGRICULTURE	FOREST CLASSIFICATIONS
PLANT GROWTH STAGE	AGRICULTURE	FOREST CONDITION MONITORING
PLANT GROWTH STAGE	AGRICULTURE	ABiotic STRESSES ON FORESTS
PLANT GROWTH STAGE	AGRICULTURE	ABiotic STRESSES ON FORESTS
PLANT GROWTH STAGE	AGRICULTURE	GRASSLANDS MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	GRASSLANDS MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	GRAZING LANDS MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	GRAZING LANDS MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	FOREST MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	FOREST MANAGEMENT
PLANT GROWTH STAGE	AGRICULTURE	FOREST RESEARCH
PLANT GROWTH STAGE	AGRICULTURE	FOREST RESEARCH
PLANT GROWTH STAGE	AGRICULTURE	RANGELAND CLASSIFICATIONS
PLANT GROWTH STAGE	AGRICULTURE	WATER REQUIREMENTS ASSESSMENT
PLANT GROWTH STAGE	AGRICULTURE	WATER REQUIREMENTS ASSESSMENT
PLANT GROWTH STAGE	AGRICULTURE	FLOOD DAMAGE ASSESSMENT
PLANT INFESTATION EXTENT	AGRICULTURE	FOREST INSECT DAMAGE
PLANT INFESTATION EXTENT	AGRICULTURE	FOREST INSECT DAMAGE
PLANT INFESTATION EXTENT	AGRICULTURE	EVAPOTRANSPIRATION MODELING
PLANT INFESTATION EXTENT	AGRICULTURE	EVAPOTRANSPIRATION MODELING
PLANT TYPE	LAND USE	WILDLIFE HABITATE INFERENCE MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PLANT TYPE	U-12	LAND USE	WILDLIFE HABITAT INFERENC MAPING
PLANT TYPE	U-9	AGRICULTURE	WILDLIFE HABITAT INFERENC MAPING
PLANT TYPE	A-39	AGRICULTURE	VEGETATION CLASSIFICATION
PLANT TYPE	A-9	AGRICULTURE	CROP PHENOLOGY STUDIES
PLANT TYPE	A-80	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT TYPE	A-80	AGRICULTURE	FURST PHENOLOGY STUDIES
PLANT TYPE	A-80	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT TYPE	A-27	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PLANT TYPE	A-36	AGRICULTURE	FURST TYPE DELINIATION
PLANT TYPE	A-71	AGRICULTURE	FURST TYPE DELINIATION
PLANT TYPE	A-80	AGRICULTURE	ACREAGE INVENTORY
PLANT TYPE	A-39	AGRICULTURE	ACREAGE INVENTORY
L-167		AGRICULTURE	ACREAGE INVENTORY
PLANT TYPE	A-64	AGRICULTURE	ABIOTIC STRESSES ON RANGELANDS
PLANT TYPE	A-80	AGRICULTURE	CROP TYPE INVENTORY
PLANT TYPE	A-42	AGRICULTURE	CROP TYPE INVENTORY
PLANT TYPE	A-41	AGRICULTURE	CROP TYPE INVENTORY
PLANT TYPE	A-25	AGRICULTURE	CROP TYPE INVENTORY
PLANT TYPE	A-26	AGRICULTURE	CROP TYPE INVENTORY
PLANT TYPE	A-23	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
PLANT TYPE	A-3	AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS
PLANT TYPE	A-9	AGRICULTURE	PHENOLOGY MODELING
PLANT TYPE	A-64	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-74	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-65	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-69	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-69	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-69	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-7	AGRICULTURE	ABIOTIC STRESSES ON CROPS
PLANT TYPE	A-80	AGRICULTURE	ACREAGE INVENTORY
PLANT TYPE	A-8	AGRICULTURE	ACREAGE INVENTORY
PLANT TYPE	A-80	AGRICULTURE	ACREAGE INVENTORY
PLANT TYPE	I-10	AGRICULTURE	YIELD MODELING
PLANT TYPE	A-10	AGRICULTURE	SOIL MOISTURE MODELING
PLANT TYPE	A-10	AGRICULTURE	IRRIGATION MANAGEMENT
PLANT TYPE	A-2	AGRICULTURE	FURST CLASSIFICATIONS
PLANT TYPE	A-1	AGRICULTURE	FURST CLASSIFICATIONS
PLANT TYPE	A-35	AGRICULTURE	FURST COVER TYPE MAPING
PLANT TYPE	A-36	AGRICULTURE	FURST COVER TYPE MAPING
PLANT TYPE	A-15	AGRICULTURE	FURST COVER TYPE MAPING
PLANT TYPE	A-81	AGRICULTURE	FURST COVER TYPE MAPING
PLANT TYPE	A-57	AGRICULTURE	FURST CONDITION MONITORING
PLANT TYPE	A-71	AGRICULTURE	FURST CONDITION MONITORING
PLANT TYPE	A-62	AGRICULTURE	FURST CONDITION MONITORING
PLANT TYPE	A-57	AGRICULTURE	FURST DISEASES
PLANT TYPE	A-58	AGRICULTURE	FURST DISEASES
PLANT TYPE	A-70	AGRICULTURE	FURST INSECT DAMAGE
PLANT TYPE	A-54	AGRICULTURE	FURST INSECT DAMAGE
PLANT TYPE	A-61	AGRICULTURE	FURST INSECT DAMAGE

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



PARAMETER		SELECTION 4,		APPLICATION TITLE	
PLANT TYPE	REFER	DISCIPLINE TITLE			
PLANT TYPE	A-63	AGRICULTURE		FOREST INSECT DAMAGE	
PLANT TYPE	A-73	AGRICULTURE		ADULT STRESSES ON FORESTS	
PLANT TYPE	A-72	AGRICULTURE		ABITIC STRESSES ON FORESTS	
PLANT TYPE	A-27	AGRICULTURE		RANGELAND PRODUCTIVITY MODELING	
PLANT TYPE	L-105	WATER RESOURCES		WETLANDS MAPPING AND INVENTORY	
PLANT TYPE	L-160	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
PLANT TYPE	L-112	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
PLANT TYPE	L-167	WATER RESOURCES		EVAPOTRANSPIRATION MODELING	
PLANT TYPE	L-100	WATER RESOURCES		HYDROLOGIC MODEL DEVELOPMENT	
PLANT TYPE	L-100	WATER RESOURCES		WATER REQUIREMENTS ASSESSMENT	
PLANT TYPE	L-160	WATER RESOURCES		WATER REQUIREMENTS ASSESSMENT	
PLANT TYPE	L-167	WATER RESOURCES		WATER RES. EVAL. FOR CRUP RESOURCES MGT	
PLANT TYPE	L-0	WATER RESOURCES		FLOOD IMAGE ASSESSMENT	
PLANT TYPE	L-2	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
PLANT TYPE	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
PLANT TYPE	L-157	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
PLANT TYPE	L-27	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
PLANT TYPE	L-3	COASTAL ZONE		COASTAL RESOURCES STUDIES	
PLANT TYPE	L-0	AIR QUALITY		EFFECTS OF AIR POLLUTION ON AGRICULTURE	
PLANT TYPE	L-0	SEVERE STORMS		FLOOD DAMAGE ASSESSMENT	
PLANT TYPE	L-1	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
IRRIGATION SCHEDULING BASED ON SOIL MOISTURE					
PLANT-WATER STRESS	L-167	WATER RESOURCES			
PLATE MOTION	G-203	GEODYNAMICS		EARTHQUAKE RISK ASSESSMENT	
PLATE MOTION	G-200	GEODYNAMICS		EARTHQUAKE RISK ASSESSMENT	
PLATE MOTION	G-200	GEODYNAMICS		GEODETIC MEASUREMENT OF PLATE MOVEMENT	
PLATE MOTION	G-201	GEODYNAMICS		REGIONAL CRUSTAL DEFORMATION MODELING	
PLATE MOTION	G-203	GEODYNAMICS		REGIONAL CRUSTAL DEFORMATION MODELING	
PLATE MOTION	G-200	GEODYNAMICS		REGIONAL CRUSTAL DEFORMATION MODELING	
PLATE MOTION	G-203	GEODYNAMICS		STRESS/STRAIN MODELING	
PLATE MOTION	G-200	GEODYNAMICS		STRESS/STRAIN MODELING	
POINT SOURCE POSITION	L-0	WATER QUALITY		POLLUTION MODELING	
POINT SOURCE POSITION	L-52	AIR QUALITY		POLLUTION MODELING	
POLAR MOTION	G-201	GEODYNAMICS		REGIONAL CRUSTAL DEFORMATION MODELING	
POLAR POSITION	L-34	CRYOSPHERIC		ICE IMPACT ON NAVIGATION	
POLAR POSITION	G-200	GEODYNAMICS		GEODETIC MEASUREMENT OF PLATE MOVEMENT	
POLAR POSITION	G-203	GEODYNAMICS		EARTH ROTATION/POLAR MOTION STUDIES	
POLAR POSITION	G-200	GEODYNAMICS		EARTH ROTATION/POLAR MOTION STUDIES	
POLLEN TYPE CONCEN	L-60	CLIMATE		HISTORICAL DATA ANALYSIS	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
POLLUTANT CONCEN	L-100	WATER RESOURCES	DAMS AND RESERVOIRS SURVEY
POLLUTANT CONCEN	L-160	WATER RESOURCES	DAMS AND RESERVOIRS SURVEY
POLLUTANT CONCEN	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
POLLUTANT CONCEN	L-109	WATER RESOURCES	WATER MODELING STUDIES
POLLUTANT CONCEN	L-100	WATER RESOURCES	POLLUTION MODELING
POLLUTANT CONCEN	L-0	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
POLLUTANT CONCEN	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
POLLUTANT CONCEN	L-1	WATER QUALITY	POLLUTANT TRANSPORT/DISPERSAL
POLLUTANT CONCEN	L-0	WATER QUALITY	HAZARDOUS WATER POLLUTION WARNING
POLLUTANT CONCEN	L-1	CRYOSPHERE	POLAR ECOLOGY
POLLUTANT CONCEN	L-52	AIR QUALITY	POLLUTION MODELING
POLLUTANT CONCEN	L-107	AIR QUALITY	POLLUTION MODELING
POLLUTANT CONCEN	L-107	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
POLLUTANT CONCEN	L-32	AIR QUALITY	EFFECTIVENESS OF POLLUTION CONTROL
POLLUTANT CONCEN	L-0	AIR QUALITY	HUMAN HEALTH HAZARDS
POLLUTANT CONCEN	L-34	CLIMATE	IMPACT ON TRAFFIC SAFETY
POLLUTANT CONCEN	L-34	CLIMATE	CONSTRUCTION
POLLUTANT DISPERSION	L-1	WATER QUALITY	POLLUTANT TRANSPORT/DISPERSAL
POLLUTANT LOCATION	L-0	WATER QUALITY	HAZARDOUS WATER POLLUTION WARNING
POLLUTANT TYPE	L-100	WATER RESOURCES	DAMS AND RESERVOIRS SURVEY
POLLUTANT TYPE	L-160	WATER RESOURCES	DAMS AND RESERVOIRS SURVEY
POLLUTANT TYPE	L-100	WATER RESOURCES	WATER MODELING STUDIES
POLLUTANT TYPE	L-81	WATER RESOURCES	WATER SUPPLY FOR FISH AND WILDLIFE
POLLUTANT TYPE	L-0	WATER QUALITY	POLLUTION MODELING
POLLUTANT TYPE	L-0	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
POLLUTANT TYPE	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
POLLUTANT TYPE	L-0	WATER QUALITY	POLLUTANT TRANSPORT/DISPERSAL
POLLUTANT TYPE	L-0	WATER QUALITY	HAZARDOUS WATER POLLUTION WARNING
POLLUTANT TYPE	L-53	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
POLLUTANT TYPE	L-1	CRYOSPHERE	POLAR ECOLOGY
POLLUTANT TYPE	L-52	AIR QUALITY	POLLUTION MODELING
POLLUTANT TYPE	L-107	AIR QUALITY	EFFECTIVENESS OF POLLUTION CONTROL
POPULATION DENSITY	L-0	WATER RESOURCES	CONSUMPTIVE USE STUDIES
POPULATION DENSITY	L-23	SEVERE STORMS	FLUDD DAMAGE ASSESSMENT
POPULATION DENSITY	L-0	SEVERE STORMS	WIND DAMAGE ASSESSMENT
POPULATION DENSITY	L-0	SEVERE STORMS	WARNING AND EVACUATION SCHEMES
PRECIP AMOUNT	L-160	LAND USE	WETLAND MANAGEMENT
PRECIP AMOUNT	L-160	LAND USE	CROP YIELD MANAGEMENT
PRECIP AMOUNT	L-170	LAND USE	GRAZING LAND MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	GRASSLAND MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PRECIP AMOUNT	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP AMOUNT	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP AMOUNT	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	AGRONOMY RESEARCH
PRECIP AMOUNT	A-4	AGRICULTURE	SOIL EROSION MODELING
PRECIP AMOUNT	A-4	AGRICULTURE	SOIL EROSION MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PRECIP AMOUNT	L-160	AGRICULTURE	FOREST RESEARCH
PRECIP AMOUNT	L-81	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
PRECIP AMOUNT	L-0	WATER RESOURCES	PRECIPITATION
PRECIP AMOUNT	L-0	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
PRECIP AMOUNT	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION
PRECIP AMOUNT	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
PRECIP AMOUNT	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP AMOUNT	L-0	SEVERE STORMS	BLIZZARD FORECASTING
PRECIP AMOUNT	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
PRECIP AMOUNT	L-0	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
PRECIP AMOUNT	L-11	SEVERE STORMS	DETERMINATION OF SEVERE STORM INDICES
PRECIP AMOUNT	L-0	SEVERE STORMS	REDUCING INTENSITY OF HURRICANES
PRECIP AMOUNT	L-160	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP AMOUNT	L-160	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP AMOUNT	L-165	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
PRECIP AMOUNT	L-71	GLOBAL WEATHER	FOREST FIRE WEATHER
PRECIP AMOUNT	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
PRECIP DURATION	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
PRECIP DURATION	L-81	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
PRECIP DURATION	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
PRECIP DURATION	L-160	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT
PRECIP DURATION	L-23	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
PRECIP DURATION	L-72	GLOBAL WEATHER	FOREST FIRE WEATHER
PRECIP EXTENT	L-160	LAND USE	WETLAND MANAGEMENT
PRECIP EXTENT	L-160	LAND USE	CROP YIELD MANAGEMENT
PRECIP EXTENT	L-170	LAND USE	GRAZING LAND MANAGEMENT
PRECIP EXTENT	L-170	LAND USE	GRASSLAND MANAGEMENT
PRECIP EXTENT	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP EXTENT	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP EXTENT	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP EXTENT	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PRECIP EXTENT	L-160	AGRICULTURE	AGRONOMY RESEARCH
PRECIP EXTENT	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
PRECIP EXTENT	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PRECIP EXTENT	L-160	AGRICULTURE	FOREST MANAGEMENT
PRECIP EXTENT	L-160	AGRICULTURE	FOREST RESEARCH
PRECIP EXTENT	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMUNALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PRECIP EXTENT	L-0	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
PRECIP EXTENT	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
PRECIP EXTENT	L-165	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP EXTENT	L-0	SEVERE STORMS	CORRELATION BETWEEN LIGHTNING/PRECIP
PRECIP EXTENT	L-0	SEVERE STORMS	FLOOD WATER MAPPING
PRECIP EXTENT	L-0	SEVERE STORMS	REDUCING INTENSITY OF HURRICANES
PRECIP EXTENT	L-160	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP EXTENT	L-165	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP EXTENT	L-160	GLOBAL WEATHER	SEVERE STORM WARNING AND FORECASTS
PRECIP EXTENT	L-0	GLOBAL WEATHER	AIR QUALITY
PRECIP EXTENT	L-162	CLIMATE	ATMOSPHERIC WATER BALANCE ASSESSMENT
PRECIP EXTENT	L-0	CLIMATE	AGRICULTURE
PRECIP EXTENT	L-0	CLIMATE	CONSTRUCTION
PRECIP EXTENT	L-0	CLIMATE	HUMAN HEALTH
PRECIP EXTENT	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
PRECIP EXTENT	L-78	CLIMATE	TRANSPORATION
PRECIP FORM	L-160	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP OVER LAND	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
PRECIP OVER SEA	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
PRECIP RATE	L-160	LAND USE	WETLAND MANAGEMENT
PRECIP RATE	L-170	LAND USE	CROP YIELD MANAGEMENT
PRECIP RATE	L-160	LAND USE	GRAZING LAND MANAGEMENT
PRECIP RATE	L-160	AGRICULTURE	GRASSLAND MANAGEMENT
PRECIP RATE	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP RATE	A-4	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP RATE	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP RATE	L-160	AGRICULTURE	YIELD MODELING
PRECIP RATE	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PRECIP RATE	A-4	AGRICULTURE	AGRONOMY RESEARCH
PRECIP RATE	A-4	AGRICULTURE	SOIL EROSION MAPPING
PRECIP RATE	L-160	AGRICULTURE	SOIL EROSION MODELING
PRECIP RATE	L-160	AGRICULTURE	SOIL EROSION MANAGEMENT
PRECIP RATE	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PRECIP RATE	L-160	AGRICULTURE	FOREST MANAGEMENT
PRECIP RATE	L-160	AGRICULTURE	FOREST RESEARCH
PRECIP RATE	L-110	WATER RESOURCES	PLAYA LAKE INVENTORY
PRECIP RATE	L-113	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
PRECIP RATE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
PRECIP RATE	L-81	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
PRECIP RATE	L-160	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
PRECIP RATE	L-111	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PRECIP RATE	L-0	WATER RESOURCES	PRECIPITATION
PRECIP RATE	L-100	WATER RESOURCES	RUNOFF MODELING
PRECIP RATE	L-100	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT
PRECIP RATE	L-81	WATER RESOURCES	WATER SUPPLY FORECASTS
PRECIP RATE	L-1	WATER RESOURCES	ICE IMPACT ON WEATHER AND CLIMATE
PRECIP RATE	L-0	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
PRECIP RATE	L-200	OCEAN PROCESSES	OCEAN CLIMATE
PRECIP RATE	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION & WARNING
PRECIP RATE	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
PRECIP RATE	L-0	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
PRECIP RATE	L-28	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
PRECIP RATE	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP RATE	L-11	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP RATE	L-0	SEVERE STORMS	COASTAL FLOODS
PRECIP RATE	L-0	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
PRECIP RATE	L-0	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
PRECIP RATE	L-0	SEVERE STORMS	DETERMINATION OF SEVERE STORM INDICES
PRECIP RATE	L-0	SEVERE STORMS	STORM/ENVIRONMENT INTERACTION ASSESSMENT
PRECIP RATE	L-0	SEVERE STORMS	CORRELATION BETWEEN LIGHTNING&PRECIP
PRECIP RATE	L-0	SEVERE STORMS	FLOOD WATER MAPPING
PRECIP RATE	L-162	GLOBAL WEATHER	REDUCING INTENSITY OF HURRICANES
PRECIP RATE	L-162	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP RATE	L-162	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP RATE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
PRECIP RATE	L-0	GLOBAL WEATHER	AIR QUALITY
PRECIP RATE	L-1	GLOBAL WEATHER	GLOBAL WATER BALANCE
PRECIP RATE	L-66	GLOBAL WEATHER	ATMOSPHERIC WATER BALANCE ASSESSMENT
PRECIP RATE	L-200	GLOBAL WEATHER	OCEAN TROPICAL REGIONS
PRECIP RATE	L-162	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
PRECIP RATE	L-123	CLIMATE	OCEAN ATMOSPHERIC INTERACTION
PRECIP RATE	L-163	CLIMATE	AGRICULTURE
PRECIP RATE	L-1	CLIMATE	DEFENSE STRATEGIC PLANNING
PRECIP RATE	L-0	CLIMATE	MILITARY OPERATION PLANNING
PRECIP RATE	L-0	CLIMATE	GENERAL CIRCULATION MODEL
PRECIP RATE	L-51	CLIMATE	CONSTRUCTION
PRECIP RATE	L-0	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
PRECIP RATE	L-0	CLIMATE	TRANSPORTATION
PRECIP TYPE	L-160	LAND USE	WETLAND MANAGEMENT
PRECIP TYPE	L-160	LAND USE	CROP YIELD MANAGEMENT
PRECIP TYPE	L-170	LAND USE	GRAZING LAND MANAGEMENT
PRECIP TYPE	L-160	LAND USE	GRASSLAND MANAGEMENT
PRECIP TYPE	A-6	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP TYPE	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP TYPE	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP TYPE	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PRECIP TYPE	A-4	AGRICULTURE	AGRONOMY RESEARCH
PRECIP TYPE	A-4	AGRICULTURE	SOIL EROSION HAPPING
PRECIP TYPE	A-4	AGRICULTURE	SOIL EROSION MODELING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



SELECTION 4,			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
PRECIP TYPE	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
PRECIP TYPE	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PRECIP TYPE	L-160	AGRICULTURE	FOREST MANAGEMENT
PRECIP TYPE	L-160	AGRICULTURE	FOREST RESEARCH
PRECIP TYPE	L-1	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
PRECIP TYPE	L-160	OCEAN PROCESSES	HEAT BUDGET OF POLAR SEAS
PRECIP TYPE	L-0	SEVERE STORMS	COASTAL OCEAN CONDITION FORECASTING
PRECIP TYPE	L-23	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
PRECIP TYPE	L-28	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
PRECIP TYPE	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
PRECIP TYPE	L-0	SEVERE STORMS	STORM/ENVIRONMENT INTERACTION ASSESSMENT
PRECIP TYPE	L-0	SEVERE STORMS	CORRELATION BETWEEN LIGHTNING&PRECIP
PRECIP TYPE	L-160	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP TYPE	L-165	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
PRECIP TYPE	L-160	GLOBAL WEATHER	AIR QUALITY
PRECIP TYPE	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
PRECIP TYPE	L-0	GLOBAL WEATHER	ATMOSPHERIC WATER BALANCE ASSESSMENT
PRECIP TYPE	L-7B	CLIMATE	TRANSPORATION
PRECIP WATER	L-200	OCEAN PROCESSES	OCEAN CLIMATE
PRECIP WATER PROF	L-160	LAND USE	WETLAND MANAGEMENT
PRECIP WATER PROF	L-160	LAND USE	CROP YIELD MANAGEMENT
PRECIP WATER PROF	L-170	LAND USE	GRAZING LAND MANAGEMENT
PRECIP WATER PROF	L-160	AGRICULTURE	GRASSLAND MANAGEMENT
PRECIP WATER PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP WATER PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
PRECIP WATER PROF	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
PRECIP WATER PROF	L-160	AGRICULTURE	AGRONOMY RESEARCH
PRECIP WATER PROF	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
PRECIP WATER PROF	L-160	AGRICULTURE	FOREST MANAGEMENT
PRECIP WATER PROF	L-0	WATER RESOURCES	FOREST RESEARCH
PRECIP WATER PROF	L-140	WATER RESOURCES	PRECIPITATION
PRECIP WATER PROF	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
PRECIP WATER PROF	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
PRECIP WATER PROF	L-0	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
PRECIP WATER PROF	L-162	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP WATER PROF	L-0	SEVERE STORMS	COASTAL FLOODS
PRECIP WATER PROF	L-0	SEVERE STORMS	REDUCING LIGHTNING
PRECIP WATER PROF	L-162	GLOBAL WEATHER	REDUCING INTENSITY OF HURRICANES
PRECIP WATER PROF	L-162	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP WATER PROF	L-165	GLOBAL WEATHER	WEATHER FORECASTS
PRECIP WATER PROF	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
PRECIP WATER PROF	L-0	GLOBAL WEATHER	AIR QUALITY
PRECIP WATER PROF	L-1	GLOBAL WEATHER	GLOBAL WATER BALANCE
PRECIP WATER PROF	L-200	GLOBAL WEATHER	ATMOSPHERIC WATER BALANCE ASSESSMENT
PRECIP WATER PROF	L-155	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
PRECIP WATER PROF	L-155	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMUNALITY DATA BASE

PARAMETER		SELECTION 4,		APPLICATION TITLE	
PRECIP WATER PROF	PRECIP WATER PROF	DISCIPLINE TITLE	REFER	CLIMATE	AGRICULTURE
PRECIP WATER PROF	PRECIP WATER PROF	CLIMATE	L-141	CLIMATE	DEFENSE STRATEGIC PLANNING
PRECIP WATER PROF	PRECIP WATER PROF	CLIMATE	L-163	CLIMATE	MILITARY OPERATION PLANNING
PRECIP WATER PROF	PRECIP WATER PROF	CLIMATE	L-163	CLIMATE	
PRECIP WATER VAPOR	PRECIP WATER VAPOR	WATER RESOURCES	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
PRECIP WATER VAPOR	PRECIP WATER VAPOR	SEVERE STORMS	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP WATER VAPOR	PRECIP WATER VAPOR	SEVERE STORMS	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
PRECIP WATER VAPOR	PRECIP WATER VAPOR	SEVERE STORMS	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
R		AIR QUALITY	L-160	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT
RADIATION BUDGET		AGRICULTURE	A-61	AGRICULTURE	FOREST INSECT DAMAGE
RADIOACTIVE NUCLIDE EXTENT		LAND USE	L-167	LAND USE	LAND USE MANAGEMENT
RADIOACTIVE NUCLIDE EXTENT		LAND USE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
RADIOACTIVE NUCLIDE STRENGTH		LAND USE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
RADIOACTIVE NUCLIDE STRENGTH		LAND USE	L-167	LAND USE	LAND USE MANAGEMENT
RADIOACTIVE NUCLIDES TYPE		LAND USE	L-167	LAND USE	LAND USE MANAGEMENT
RADIOACTIVE NUCLIDES TYPE		LAND USE	L-167	LAND USE	LAND USE MANAGEMENT
RADIOACTIVE STRENGTH		OCEAN PROCESSES	L-160	OCEAN PROCESSES	SOCIAL/POLITICAL/ECONOMIC MAPPING
RADIOACTIVE WASTE EXTENT		LAND USE	L-160	LAND USE	LIVING MARINE RESOURCES
RADIOACTIVE WASTE EXTENT		WATER RESOURCES	L-81	WATER RESOURCES	WETLAND MANAGEMENT
RADIOACTIVE WASTE EXTENT		WATER QUALITY	L-0	WATER QUALITY	INDUSTRIAL USES
RADIOACTIVE WASTE EXTENT		WATER QUALITY	L-160	WATER QUALITY	MONITORING CONDITIONS OF LAKES
RADIOACTIVE WASTE EXTENT		WATER QUALITY	L-2	WATER QUALITY	OIL SPILL AND WASTE MONITORING
RADIOACTIVE WASTE EXTENT		OCEAN PROCESSES	L-160	OCEAN PROCESSES	OIL SPILL AND WASTE MONITORING
RADIOACTIVE WASTE EXTENT		OCEAN PROCESSES	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT
RADIOACTIVE WASTE EXTENT		OCEAN PROCESSES	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
RADIOACTIVE WASTE EXTENT		OCEAN PROCESSES	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
RADIOACTIVE WASTE STRENGTH		LAND USE	L-160	LAND USE	WETLAND MANAGEMENT
RADIOACTIVE WASTE STRENGTH		WATER QUALITY	L-160	WATER QUALITY	OIL SPILL AND WASTE MONITORING
RADIOACTIVE WASTE STRENGTH		WATER QUALITY	L-2	WATER QUALITY	OIL SPILL AND WASTE MONITORING
RADIOACTIVE WASTE STRENGTH		OCEAN PROCESSES	L-160	OCEAN PROCESSES	POLLUTION CONTROL
RADIOACTIVE WASTE STRENGTH		OCEAN PROCESSES	L-160	OCEAN PROCESSES	FISH YIELD MANAGEMENT
RADIOACTIVE WASTE STRENGTH		OCEAN PROCESSES	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION

Table 4.4.1 Commonality of Parameters by Application (cont.)

SECTION 4.

Table 4.4.1 Commonality of Parameters by Application (cont.)

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

PARAMETER		SELECTION 4)		APPLICATION TITLE	
ROCK TYPE	REFER	DISCIPLINE TITLE			
ROCK TYPE	L-10	NON-RENEWABLE RESOURCES		GEOLOGICAL ECONOMIC RESOURCES	
ROCK TYPE	L-10	NON-RENEWABLE RESOURCES		GEOLOGICAL ECONOMIC RESOURCES	
ROCK TYPE	0-1	NON-RENEWABLE RESOURCES		GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION	
ROCK TYPE	0-2	NON-RENEWABLE RESOURCES		GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION	
ROCK TYPE	0-4	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
ROCK TYPE	0-5	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
ROCK TYPE	L-11	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
ROCK TYPE	L-159	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
ROCK TYPE	L-15	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING	
REGIONAL CRUSTAL DEFORMATION MODELING					
ROTATIONAL PERIOD	0-201	GEODYNAMICS			
KUNOFF RATE	L-113	WATER RESOURCES		PLAYA LAKE INVENTORY	
RUNOFF RATE	L-100	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
RUNOFF RATE	L-0	WATER RESOURCES		SNOWMELT MONITORING	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-27	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL RESOURCES STUDIES	
RUNOFF RATE	L-26	CLIMATE		PLAYA LAKE INVENTORY	
RUNOFF RATE	L-113	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
RUNOFF RATE	L-100	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
RUNOFF RATE	L-112	WATER RESOURCES		RUNOFF MONITORING/ASSESSMENT	
RUNOFF RATE	L-81	WATER RESOURCES		SOIL MOISTURE STUDIES	
RUNOFF RATE	L-0	WATER RESOURCES		SNOWMELT MONITORING	
RUNOFF RATE	L-81	WATER RESOURCES		WATER SUPPLY FORECASTS	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-37	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING	
RUNOFF RATE	L-3	COASTAL ZONE		COASTAL RESOURCES STUDIES	
RUNOFF RATE	L-1	CLIMATE		GENERAL CIRCULATION MODEL	
RUNOFF RATE	L-26	CLIMATE		RADIATION AND THE GLOBAL ENERGY BALANCE	
SALINITY	L-167	LAND USE		WETLAND MANAGEMENT	
SALINITY	L-167	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING	
SALINITY	0-9	LAND USE		WILDLIFE HABITAT INFERENCE MAPPING	
SALINITY	2-3	LAND USE		ECOSYSTEM MAPPING	
SALINITY	2-10	LAND USE		WETLAND MANAGEMENT	
SALINITY	L-167	AGRICULTURE		WETLAND MANAGEMENT	
SALINITY	L-167	AGRICULTURE		SOILS RESEARCH	
SALINITY	L-167	AGRICULTURE		RANGELAND CONDITION MONITORING	
SALINITY	L-167	AGRICULTURE		AGRONOMY MANAGEMENT	
SALINITY	L-167	AGRICULTURE		GRASSLANDS MANAGEMENT	
SALINITY	L-167	AGRICULTURE		GRAZING LANDS MANAGEMENT	
SALINITY	L-167	AGRICULTURE		FOREST MANAGEMENT	
SALINITY	L-167	AGRICULTURE		WETLANDS MAPPING AND INVENTORY	
SALINITY	L-167	WATER RESOURCES		WETLANDS MAPPING AND INVENTORY	

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SALINITY	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
SALINITY	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
SALINITY	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
SALINITY	L-162	WATER RESOURCES	POLLUTANT WATER
SALINITY	L-167	WATER RESOURCES	MONITORING CONDITIONS OF LAKES
SALINITY	L-0	WATER QUALITY	POLLUTION MONITORING
SALINITY	L-160	WATER QUALITY	POLLUTION MONITORING
SALINITY	L-167	WATER QUALITY	POLLUTION MONITORING
SALINITY	L-1	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SALINITY	L-167	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SALINITY	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-157	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SALINITY	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SALINITY	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SALINITY	L-10	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SALINITY	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SALINITY	L-10	COASTAL ZONE	COASTAL ESTUARY AND OCEAN ENGINEERING
SALINITY	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-15	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
SALINITY	L-1	CRYOSPHERE	SEA ICE DYNAMICS
SALINITY	L-54	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
SALINITY	L-162	CRYOSPHERE	RIVER AND LAKE ICE FORECAST
SALINITY	L-57	OCEAN PROCESSES	FISHERY MANAGEMENT
SALINITY	L-37	OCEAN PROCESSES	OCEAN CLIMATE
SALINITY	L-200	OCEAN PROCESSES	LIVING MARINE RESOURCES
SALINITY	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
SALINITY	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
SALINITY	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SALINITY	L-162	OCEAN PROCESSES	OCEAN CONTAMINATION
SALINITY	L-160	OCEAN PROCESSES	ARCTIC AND SUBARCTIC SEAS
SALINITY	L-66	GLOBAL WEATHER	SOUTHERN OCEANS
SALINITY	L-66	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
SALINITY	L-200	CLIMATE	GENERAL CIRCULATION MODEL
SALINITY	L-1	CLIMATE	
SATURATION OF VADOSE ZONE	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
SATURATION OF VADOSE ZONE	L-167	LAND USE	CARTOGRAPHY
SATURATION OF VADOSE ZONE	L-167	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
SATURATION OF VADOSE ZONE	L-167	WATER RESOURCES	POLLUTANT WATER

Table 4.4.1 Commonality of Parameters by Application (cont.)

SECTION 4,

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Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION: 4,

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SEDIMENT TRANSPORT DIR	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
SEDIMENT TRANSPORT DIR	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SEDIMENT TRANSPORT DIR	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
SEDIMENT TRANSPORT DIR	L-0	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
SEDIMENT TRANSPORT EXTENT	L-167	LAND USE	LAND USE MANAGEMENT
SEDIMENT TRANSPORT EXTENT	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
SEDIMENT TRANSPORT EXTENT	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
SEDIMENT TRANSPORT EXTENT	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
SEDIMENT TRANSPORT EXTENT	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SEDIMENT TRANSPORT EXTENT	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
SEDIMENT TRANSPORT LOC	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	CHEMICAL OCEAN RESEARCH
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	MARINE GEOLOGY
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SEDIMENT TRANSPORT LOC	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
SEDIMENTATION RATE	L-167	LAND USE	WETLAND MANAGEMENT
SEDIMENTATION RATE	L-167	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
SEDIMENTATION RATE	L-167	WATER QUALITY	POLLUTANT WATER
SEDIMENTATION RATE	L-167	WATER QUALITY	POLLUTION MONITORING
SEDIMENTATION RATE	L-167	WATER QUALITY	POLLUTION MONITORING
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	MARINE GEOLOGY
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SEDIMENTATION RATE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
SEISMICITY	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SEISMICITY	L-23	OCEAN PROCESSES	OCEAN CURRENT
SEISMICITY	Q-10	GEODYNAMICS	EARTHQUAKE RISK ASSESSMENT
SEISMICITY	Q-7	GEODYNAMICS	VOLCANIC ERUPTION RISK ASSESSMENT
SEISMICITY	Q-7	NON-RENEWABLE RESOURCES	IMPACT ASSESSMENT
SENSIBLE HEAT FLUX	L-34	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
SENSIBLE HEAT FLUX	L-103	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
SENSIBLE HEAT FLUX	L-11	OCEAN PROCESSES	OCEAN INTERACTIONS
SENSIBLE HEAT FLUX	L-160	GLOBAL WEATHER	WEATHER FORECASTS
SENSIBLE HEAT FLUX	L-0	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
SENSIBLE HEAT FLUX	L-65	GLOBAL WEATHER	ATMOSPHERIC BLOCKING
SENSIBLE HEAT FLUX	L-11	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4:

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SEVERE STORM LOC SEVERE STORM LOC	L-0 L-0	WATER RESOURCES SEVERE STORMS	FLOOD DAMAGE ASSESSMENT LIGHTNING PHYSICS
SEWAGE WASTES SEWAGE WASTES SEWAGE WASTES SEWAGE WASTES	L-81 L-160 L-2 L-2 L-160	WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY	INDUSTRIAL USES OIL SPILL AND WASTE MONITORING OIL SPILL AND WASTE MONITORING POLLUTION CONTROL POLLUTION CONTROL
SHIP DENSITY SHIP DENSITY SHIP DENSITY	L-0 L-0 L-0	CRYOSPHERE CRYOSPHERE CRYOSPHERE	ICE IMPACT ON NAVIGATION SEA ICE HAZARD MONITORING & PREDICTION SHIP ROUTING IN POLAR REGIONS
SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION SHIP LOCATION	Z-1 L-2 L-3 L-0 L-0 L-34 L-34 L-39 L-23 L-166 L-0 L-0	COASTAL ZONE COASTAL ZONE CRYOSPHERE CRYOSPHERE CRYOSPHERE OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES SEVERE STORMS CLIMATE	COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES COASTAL RESOURCES STUDIES ICE IMPACT ON NAVIGATION SEA ICE HAZARD MONITORING & PREDICTION SHIP ROUTING IN POLAR REGIONS OIL SITE SCHEDULING AND RESCUE MARINE SEARCH AND RESCUE TRAFFIC MANAGEMENT LIVING MARINE RESOURCES WARNING AND EVACUATION SCENES TRANSPORTATION
SHIP ROUTE	L-0	SEVERE STORMS	WIND DAMAGE ASSESSMENT
SHIP SIZE SHIP SIZE	L-104 L-59	WATER QUALITY OCEAN PROCESSES	LASER TECHNOLOGY FOR SUBSURFACE MONITORING MARINE SEARCH AND RESCUE
SHOAL/SHOORELINE MOVEMENT SHOAL/SHOORELINE MOVEMENT SHOAL/SHOORELINE MOVEMENT SHOAL/SHOORELINE MOVEMENT SHOAL/SHOORELINE MOVEMENT	L-160 L-160 L-160 L-160 L-160	LAND USE LAND USE OCEAN PROCESSES OCEAN PROCESSES OCEAN PROCESSES	SOCIAL/POLITICAL/ECONOMIC MAPPING CARTOGRAPHY MARINE GEOLOGY LIVING MARINE RESOURCES OCEAN ENGINEERING PHYSICAL OCEAN RESEARCH
SHOAL/SHOORELINE MOVEMENTS SHOAL/SHOORELINE MOVEMENTS	L-167 L-0	LAND USE GLOBAL WEATHER	LAND USE MANAGEMENT GLOBAL CONVECTIVE BALANCE
SHORTWAVE RADIATION	L-15	SEVERE STORMS	CROP FREEZE POTENTIAL ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

PARAMETER	REFER	DISCIPLINE TITLE	SELECTION 41	APPLICATION TITLE
SKIN DEPTH	L-160	WATER RESOURCES		SOIL MOISTURE STUDIES
SKIN DEPTH	L-111	WATER RESOURCES		SOIL MOISTURE STUDIES
SKIN DEPTH	L-111	WATER RESOURCES		ANTECEDENT PRECIP INDEX DETERMINATION
SKIN DEPTH	L-160	WATER RESOURCES		ANTECEDENT PRECIP INDEX DETERMINATION
SKIN DEPTH	L-160	WATER RESOURCES		WATERSHED MANAGEMENT
SLOPE, RELIEF	A-61	AGRICULTURE		FOREST INSECT DAMAGE
SLOPE, RELIEF	L-113	WATER RESOURCES		PLAYA LAKE INVENTORY
SLOPE, RELIEF	L-11	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING
SLOPE, RELIEF	L-167	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING
SLOPE, RELIEF	U-20	LAND USE		SURFACE WATER INVENTORY
SLOPE, RELIEF	U-8	LAND USE		LAND USE IMPACT ASSESSMENT
SLOPE, RELIEF	U-9	LAND USE		RESOURCE IMPACT PLANNING
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION APPLICATIONS
SLOPE, RELIEF	A-29	AGRICULTURE		RANGELANDS INVENTORY
SLOPE, RELIEF	A-29	AGRICULTURE		RANGELAND CONDITION MONITORING
SLOPE, RELIEF	A-29	AGRICULTURE		ABITOTIC STRESSES ON CROPS
SLOPE, RELIEF	A-69	AGRICULTURE		ABITOTIC STRESSES ON CROPS
SLOPE, RELIEF	A-69	AGRICULTURE		ABITOTIC STRESSES ON CROPS
SLOPE, RELIEF	A-29	AGRICULTURE		ABITOTIC STRESSES ON CROPS
SLOPE, RELIEF	A-11	AGRICULTURE		ABITOTIC STRESSES ON CROPS
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION
SLOPE, RELIEF	A-11	AGRICULTURE		SOIL EROSION MAPPING
SLOPE, RELIEF	A-4	AGRICULTURE		SOIL EROSION MAPPING
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION MAPPING
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION MAPPING
SLOPE, RELIEF	A-11	AGRICULTURE		SOIL EROSION MODELING
SLOPE, RELIEF	A-4	AGRICULTURE		SOIL EROSION MODELING
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION MODELING
SLOPE, RELIEF	A-11	AGRICULTURE		SOIL EROSION MANAGEMENT
SLOPE, RELIEF	A-4	AGRICULTURE		SOIL EROSION MANAGEMENT
SLOPE, RELIEF	A-80	AGRICULTURE		SOIL EROSION MANAGEMENT
SLOPE, RELIEF	A-62	AGRICULTURE		SOIL EROSION MANAGEMENT
SLOPE, RELIEF	A-73	AGRICULTURE		SOIL EROSION MANAGEMENT
SLOPE, RELIEF	A-29	AGRICULTURE		FOREST CONDITION MONITORING
SLOPE, RELIEF	L-3	AGRICULTURE		ABITOTIC STRESSES ON FORESTS
SLOPE, RELIEF	L-4	COASTAL ZONE		RANGELAND CLASSIFICATIONS
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING
SLOPE, RELIEF	L-3	COASTAL ZONE		COASTAL ENVIRONMENT MAPPING
SLOPE, RELIEF	L-1	COASTAL ZONE		OPERATION/NAVIGATION ASSESSMENT
SLOPE, RELIEF	L-3	COASTAL ZONE		COASTAL OCEAN CONDITION MONITORING
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING
SLOPE, RELIEF	L-2	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING
SLOPE, RELIEF	L-0	COASTAL ZONE		COASTAL, ESTUARY AND OCEAN ENGINEERING
SLOPE, RELIEF	L-2	COASTAL ZONE		COASTAL RESOURCES STUDIES
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL RESOURCES STUDIES
SLOPE, RELIEF	L-1	COASTAL ZONE		COASTAL RESOURCES STUDIES
SLOPE, RELIEF	L-2	COASTAL ZONE		DESERT AREA STUDIES
SLOPE, RELIEF	0-100	GEODYNAMICS		

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4)

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SLOPE, RELIEF SLOPE, RELIEF	Q-1 G-1	GEODYNAMICS NON-RENEWABLE RESOURCES	GEOLOGICAL MAPPING GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION
SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER SNOW COVER	L-100 L-115 L-100 L-34 L-160 L-100 L-100 L-34 L-34 L-34 L-78 L-26	WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES CRYOSPHERE CRYOSPHERE CRYOSPHERE CLIMATE CLIMATE	SNOWPACK PROPERTIES RESEARCH SNOWPACK PROPERTIES RESEARCH SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING
SNOW DENSITY SNOW DENSITY SNOW DENSITY SNOW DENSITY	L-105 L-0 L-34 L-34	WATER RESOURCES WATER RESOURCES CRYOSPHERE CRYOSPHERE	SOIL MOISTURE STUDIES SNOWMELT MONITORING SNOW MELTING MODELLING SNOW HYDROLOGY
SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH SNOW DEPTH	L-160 L-160 L-105 L-100 L-115 L-100 L-100 L-81 L-34 L-34 L-34 L-0	LAND USE WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES CRYOSPHERE CRYOSPHERE CRYOSPHERE GLOBAL WEATHER	SURFACE WATER INVENTORY SOIL MOISTURE STUDIES SOIL MOISTURE STUDIES SNOWPACK PROPERTIES RESEARCH SNOWPACK PROPERTIES RESEARCH SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING SNOWMELT MONITORING
SNOW SURFACE TEMP	L-0	CRYOSPHERE	SNOW MELTING MODELLING
SNOW/ICE EXTENT	U-6	LAND USE	LAND USE MAPPING
SNOW/WATER CONTENT	L-34	CRYOSPHERE	SNOW MELTING MODELLING
SNOW/WATER EQUIVALENT SNOW/WATER EQUIVALENT	L-109 L-105	WATER RESOURCES WATER RESOURCES	SOIL MOISTURE STUDIES SOIL MOISTURE STUDIES

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



PARAMETER		SELECTION 4:		APPLICATION TITLE	
DISCIPLINE TITLE		REFER		LAND USE	
SNOW/WATER EQUIVALENT SNOW/WATER EQUIVALENT SNOW/WATER EQUIVALENT SNOW/WATER EQUIVALENT	L-100 L-100 L-100 L-34	WATER RESOURCES WATER RESOURCES WATER RESOURCES CRYOSPHERE	SNOWPACK PROPERTIES RESEARCH SNOWMELT MONITORING ANTECEDENT PRECIP INDEX DETERMINATION RUNOFF MODELING SNOW MELTING MODELLING	LAND USE MANAGEMENT	
				LAND USE	
				LAND USE	
				LAND USE	
SOIL CHEMISTRY	L-107 L-167 L-167 L-167 L-167	AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE	SOCIAL/POLITICAL/ECONOMIC MAPPING SOILS RESEARCH AGRONOMY MANAGEMENT GRASSLANDS MANAGEMENT GRAZING LANDS MANAGEMENT FOREST MANAGEMENT	LAND USE MANAGEMENT	
				LAND USE	
				LAND USE	
				LAND USE	
SOIL CHEMISTRY	L-167	AGRICULTURE	RANGELAND CONDITION MONITORING	LAND USE MANAGEMENT	
				LAND USE	
SOIL CONDITION	A-12	AGRICULTURE	SOIL MAPPING	LAND USE MANAGEMENT	
				LAND USE	
SOIL CONSTITUENTS	L-167	AGRICULTURE	SOIL PRODUCTIVITY STUDIES	LAND USE MANAGEMENT	
				LAND USE	
SOIL DENSITY	L-105	WATER RESOURCES	SOIL MOISTURE STUDIES	LAND USE MANAGEMENT	
				LAND USE	
SOIL GRANULARITY	L-167 L-160 L-167 L-167 L-167 L-167 L-167 L-167	LAND USE LAND USE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT SOILS RESEARCH YIELD/PRODUCTIVITY STUDIES AGRONOMY MANAGEMENT GRASSLANDS MANAGEMENT GRAZING LANDS MANAGEMENT FOREST MANAGEMENT	LAND USE MANAGEMENT	
				LAND USE	
				LAND USE	
				LAND USE	
SOIL MOISTURE	L-167 L-167 A-13 A-6 A-10 A-14 L-167 L-0 A-6 A-29 A-23	LAND USE LAND USE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE	SOCIAL/POLITICAL/ECONOMIC MAPPING SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT SOIL CLASSIFICATION YIELD/PRODUCTIVITY STUDIES SOIL MOISTURE APPLICATIONS SOIL MOISTURE APPLICATIONS SOIL MOISTURE APPLICATIONS SOIL EROSION APPLICATIONS YIELD/PRODUCTIVITY STUDIES RANGELAND CONDITION MONITORING SPECTRAL SEPARABILITY OF CROPS	LAND USE MANAGEMENT	
				LAND USE	
				LAND USE	
				LAND USE	

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

SELECTION 4:

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
MOISTURE	A-6	AGRICULTURE	YIELD MODELING
SOIL	A-13	AGRICULTURE	SOIL MAPPING
SOIL	A-10	AGRICULTURE	SOIL MOISTURE MAPPING
SOIL	A-14	AGRICULTURE	SOIL MOISTURE MAPPING
SOIL	A-10	AGRICULTURE	SOIL MOISTURE MODELING
SOIL	A-14	AGRICULTURE	SOIL MOISTURE MODELING
MOISTURE	A-10	AGRICULTURE	IRRIGATION MANAGEMENT
MOISTURE	A-14	AGRICULTURE	IRRIGATION MANAGEMENT
MOISTURE	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
MOISTURE	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT
MOISTURE	L-167	AGRICULTURE	FOREST MANAGEMENT
MOISTURE	L-160	AGRICULTURE	FOREST RESEARCH
MOISTURE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
MOISTURE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
MOISTURE	L-81	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
MOISTURE	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
MOISTURE	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
MOISTURE	L-103	WATER RESOURCES	SOIL MOISTURE STUDIES
MOISTURE	L-111	WATER RESOURCES	SOIL MOISTURE STUDIES
MOISTURE	L-81	WATER RESOURCES	SNOWMELT MONITORING
MOISTURE	L-160	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
MOISTURE	L-111	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
MOISTURE	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
MOISTURE	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
MOISTURE	L-100	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
MOISTURE	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
MOISTURE	L-100	WATER RESOURCES	NUNOMELT MODELING
MOISTURE	L-100	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
MOISTURE	L-100	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
MOISTURE	L-160	WATER RESOURCES	WATER REQTS EVAL FOR CROP RESOURCES NOT
MOISTURE	L-167	WATER RESOURCES	IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
MOISTURE	L-100	WATER RESOURCES	FLOOD AREA MAPPING
MOISTURE	L-156	WATER RESOURCES	FLOOD AREA MAPPING
MOISTURE	L-160	WATER RESOURCES	POLLUTION MONITORING
QUALITY	L-160	WATER QUALITY	SNOW MELTING MODELLING
CRYOSPHERE	L-34	CRYOSPHERE	FLASH FLOOD WARNING/PREDICTION
STORMS	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
CLIMATE	L-0	CLIMATE	AGRICULTURE
CLIMATE	L-161	CLIMATE	GENERAL CIRCULATION MODEL
CLIMATE	L-1	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLIMATE	L-31	CLIMATE	GEOLOGICAL ECONOMIC RESOURCES
CLIMATE	L-10	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
CLIMATE	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
ORGANIC CONTENT	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
ORGANIC CONTENT	L-160	LAND USE	LAND USE MANAGEMENT
ORGANIC CONTENT	L-167	AGRICULTURE	AGRONOMY MANAGEMENT
ORGANIC CONTENT	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)



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COMMONALITY DATA BASE

SELECTION 4,

PARAMETER	DISCIPLINE TITLE	REFER	APPLICATION TITLE
SOIL ORGANIC CONTENT	AGRICULTURE	L-167	GRAZING LANDS MANAGEMENT
SOIL ORGANIC CONTENT	AGRICULTURE	L-167	FOREST MANAGEMENT
SOIL PERMEABILITY	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
SOIL PERMEABILITY	LAND USE	L-160	LAND USE MANAGEMENT
SOIL PERMEABILITY	LAND USE	L-167	CARTOGRAPHY
SOIL PERMEABILITY	AGRICULTURE	L-167	SOILS RESEARCH
SOIL PERMEABILITY	AGRICULTURE	L-167	YIELD/PRODUCTIVITY STUDIES
SOIL PERMEABILITY	AGRICULTURE	L-167	AGRONOMY MANAGEMENT
SOIL PERMEABILITY	AGRICULTURE	L-167	GRASSLANDS MANAGEMENT
SOIL PERMEABILITY	AGRICULTURE	L-167	FOREST LANDS MANAGEMENT
SOIL PERMEABILITY	AGRICULTURE	L-167	FOREST MANAGEMENT
SOIL PERMEABILITY	WATER RESOURCES	L-160	RUNOFF MONITORING/ASSESSMENT
SOIL PERMEABILITY	WATER RESOURCES	L-112	RUNOFF MONITORING/ASSESSMENT
SOIL PERMEABILITY	WATER RESOURCES	L-112	RUNOFF MONITORING/ASSESSMENT
SOIL PERMEABILITY	AIR QUALITY	L-52	THERMAL POLLUTANTS/TRACKING
SOIL POROSITY	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
SOIL POROSITY	LAND USE	L-167	LAND USE MANAGEMENT
SOIL POROSITY	AGRICULTURE	L-167	SOILS RESEARCH
SOIL POROSITY	AGRICULTURE	L-167	YIELD/PRODUCTIVITY STUDIES
SOIL POROSITY	AGRICULTURE	L-167	AGRONOMY MANAGEMENT
SOIL POROSITY	AGRICULTURE	L-167	GRASSLANDS MANAGEMENT
SOIL POROSITY	AGRICULTURE	L-167	FOREST LANDS MANAGEMENT
SOIL POROSITY	AGRICULTURE	L-167	FOREST MANAGEMENT
SOIL POROSITY	WATER RESOURCES	L-81	SOIL MOISTURE STUDIES
SOIL POROSITY	WATER RESOURCES	L-101	WATERSHED MANAGEMENT
SOIL POROSITY	WATER RESOURCES	L-160	WATERSHED MANAGEMENT
SOIL PROPERTIES	LAND USE	L-167	SOCIAL/POLITICAL/ECONOMIC MAPPING
SOIL PROPERTIES	LAND USE	L-160	LAND USE MANAGEMENT
SOIL PROPERTIES	AGRICULTURE	A-13	SOIL CLASSIFICATION
SOIL PROPERTIES	AGRICULTURE	L-167	SOIL PRODUCTIVITY STUDIES
SOIL PROPERTIES	AGRICULTURE	L-167	SOILS RESEARCH
SOIL PROPERTIES	AGRICULTURE	L-167	AGRONOMY MANAGEMENT
SOIL PROPERTIES	AGRICULTURE	A-13	SOIL MAPPING
SOIL TEMP	WATER RESOURCES	L-111	SOIL MOISTURE STUDIES
SOIL TEMP	WATER RESOURCES	L-100	WATER REQUIREMENTS ASSESSMENT
SOIL TEMP	CLIMATE	L-1	GENERAL CIRCULATION MODEL
SOIL TEMP PROF	WATER RESOURCES	L-111	ANTECEDENT PRECIP INDEX DETERMINATION
SOIL TEMP PROF	WATER RESOURCES	L-114	EVAPOTRANSPIRATION MODELING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SOIL TEXTURE	A-13	AGRICULTURE	SOIL CLASSIFICATION
SOIL TEXTURE	A-32	AGRICULTURE	SOIL CLASSIFICATION
SOIL TEXTURE	L-167	AGRICULTURE	SOIL PRODUCTIVITY STUDIES
SOIL TEXTURE	L-156	WATER RESOURCES	SOIL FLOOD AREA MAPPING
SOIL TEXTURE	L-158	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING
SOIL TYPE	U-6	LAND USE	LAND USE MAPPING
SOIL TYPE	U-5	LAND USE	VEGETATIVE COVER MAPPING
SOIL TYPE	U-20	LAND USE	VEGETATIVE COVER MAPPING
SOIL TYPE	U-8	LAND USE	SURFACE WATER INVENTORY
SOIL TYPE	U-9	LAND USE	LAND USE IMPACT ASSESSMENT
SOIL TYPE	U-4	LAND USE	RESOURCE IMPACT PLANNING
SOIL TYPE	U-33	LAND USE	SURFACE MINING DELINEATION
SOIL TYPE	A-80	AGRICULTURE	SURFACE MINING DELINEATION
SOIL TYPE	A-32	AGRICULTURE	VEGETATION CLASSIFICATION
SOIL TYPE	A-10	AGRICULTURE	SOIL CLASSIFICATION
SOIL TYPE	A-167	AGRICULTURE	SOIL MOISTURE APPLICATIONS
SOIL TYPE	A-80	AGRICULTURE	SOIL PRODUCTIVITY STUDIES
SOIL TYPE	L-0	AGRICULTURE	SOIL EROSION APPLICATIONS
SOIL TYPE	A-42	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
SOIL TYPE	A-11	AGRICULTURE	CROP TYPE INVENTORY
SOIL TYPE	A-32	AGRICULTURE	SOIL MAPPING
SOIL TYPE	A-12	AGRICULTURE	SOIL MAPPING
SOIL TYPE	A-10	AGRICULTURE	SOIL MAPPING
SOIL TYPE	A-10	AGRICULTURE	SOIL MOISTURE MAPPING
SOIL TYPE	A-10	AGRICULTURE	SOIL MOISTURE MODELING
SOIL TYPE	A-80	AGRICULTURE	IRRIGATION MANAGEMENT
SOIL TYPE	A-11	AGRICULTURE	SOIL EROSION MAPPING
SOIL TYPE	A-11	AGRICULTURE	SOIL EROSION MAPPING
SOIL TYPE	A-4	AGRICULTURE	SOIL EROSION MAPPING
SOIL TYPE	A-80	AGRICULTURE	SOIL EROSION MAPPING
SOIL TYPE	A-11	AGRICULTURE	SOIL EROSION MODELING
SOIL TYPE	A-80	AGRICULTURE	SOIL EROSION MODELING
SOIL TYPE	A-11	AGRICULTURE	SOIL EROSION MODELING
SOIL TYPE	A-4	AGRICULTURE	SOIL EROSION MODELING
SOIL TYPE	A-80	AGRICULTURE	SOIL EROSION MANAGEMENT
SOIL TYPE	A-11	AGRICULTURE	SOIL EROSION MANAGEMENT
SOIL TYPE	A-4	AGRICULTURE	SOIL EROSION MANAGEMENT
SOIL TYPE	A-80	AGRICULTURE	SOIL EROSION MANAGEMENT
SOIL TYPE	A-11	AGRICULTURE	FOREST CLASSIFICATIONS
SOIL TYPE	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY
SOIL TYPE	L-160	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
SOIL TYPE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
SOIL TYPE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT
SOIL TYPE	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
SOIL TYPE	L-105	WATER RESOURCES	SOIL MOISTURE STUDIES
SOIL TYPE	L-160	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
SOIL TYPE	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
SOIL TYPE	L-100	WATER RESOURCES	RUNOFF MODELING
SOIL TYPE	L-156	WATER RESOURCES	FLOOD AREA MAPPING
SOIL TYPE	L-160	WATER RESOURCES	FLOOD AREA MAPPING
SOIL TYPE	L-0	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SOIL TYPE	L-1	CLIMATE	GENERAL CIRCULATION MODEL
SOIL TYPE	L-60	CLIMATE	HISTORICAL DATA ANALYSIS
SOIL TYPE	C-4	GEODYNAMICS	BUCK TYPE MAPPING
SOIL TYPE	C-2	GEODYNAMICS	GEOLOGICAL MAPPING
SOIL TYPE	O-4	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING
SOIL TYPE	L-15B	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING
SOIL TYPE	O-18	NON-RENEWABLE RESOURCES	MINING ENGINEERING
SOIL/ROCK COMPOSITION	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
SOIL/ROCK COMPOSITION	L-160	LAND USE	LAND USE MANAGEMENT
SOIL/ROCK COMPOSITION	L-167	LAND USE	CARTOGRAPHY
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	SOILS RESEARCH
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	AGRONOMY MANAGEMENT
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	GRAZING LANDS MANAGEMENT
SOIL/ROCK COMPOSITION	L-167	AGRICULTURE	FOREST MANAGEMENT
SOIL/ROCK COMPOSITION	L-160	WATER QUALITY	POLLUTION MONITORING
SOLAR CONSTANT	L-160	WATER RESOURCES	WATER TABLES AND GROUND WATER DETECTION
SOLAR CONSTANT	L-100	WATER RESOURCES	WATER TABLES AND GROUND WATER DETECTION
SOLAR CONSTANT	L-103	AIR QUALITY	STRATOSPHERE/TROPOSPHERE INTERFACE
SOLAR CONSTANT	L-91	AIR QUALITY	CO ₂ IMPACTS
SOLAR CONSTANT	L-160	GLOBAL WEATHER	WEATHER FORECASTS
SOLAR CONSTANT	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
SOLAR CONSTANT	L-170	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
SOLAR CONSTANT	L-161	CLIMATE	AGRICULTURE
SOLAR CONSTANT	L-7B	CLIMATE	ENERGY DEMAND
SOLAR CONSTANT	L-0	CLIMATE	INDIAN HEALTH
SOLAR CONSTANT	L-1	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
SOLAR CONSTANT	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
SOLAR CONSTANT	L-26	CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE
SOLAR FLUX	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING
SOLAR FLUX	L-104	WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING
SOLAR FLUX	L-161	WATER QUALITY	LASER TECHNOLOGY FOR SUBSURFACE MONITORING
SOLAR FLUX	L-103	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
SOLAR FLUX	L-160	GLOBAL WEATHER	WEATHER FORECASTS
SOLAR FLUX	L-160	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
SOLAR FLUX	L-161	CLIMATE	AGRICULTURE
SOLAR FLUX	L-7B	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
SOLID EARTH TIDAL ACCEL	O-203	GEODYNAMICS	SOLID EARTH TIDAL STUDIES
SOLID EARTH TIDAL DISPL	O-201	GEODYNAMICS	REGIONAL CRUSTAL DEFORMATION MODELING
SOLID EARTH TIDAL DISPL	O-203	GEODYNAMICS	SOLID EARTH TIDAL STUDIES
SOLID EARTH TIDAL DISPL	C-203	GEODYNAMICS	EARTH ROTATION/POLAR MOTION STUDIES

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMUNALITY DATA BASE			
SELECTION 4:			
PARAMETER	REFER.	DISCIPLINE TITLE	APPLICATION TITLE
SOLID EARTH TIDAL DISPL	0-200	GEODYNAMICS	EARTH ROTATION/POLAR MOTION STUDIES
SOLID WASTE EXTENT	L-107	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING SURFACE WATER INVENTORY LAND USE MANAGEMENT CARTOGRAPHY
SOLID WASTE EXTENT	L-167	LAND USE	
SOLID WASTE EXTENT	L-167	LAND USE	
SOLID WASTE EXTENT	L-167	LAND USE	
SOLID WASTE IDENTIFICATION	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY
SOLID WASTE IDENTIFICATION	L-167	LAND USE	
SOLID WASTE IDENTIFICATION	L-167	LAND USE	
SOLID WASTE IDENTIFICATION	L-167	LAND USE	
802	L-1	AIR QUALITY	ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC COMPOSITION ASSESSMENT ATMOSPHERIC CHEMISTRY ASSESSMENT ATMOSPHERIC CHEMISTRY ASSESSMENT EFFECTS OF AIR POLLUTION ON AGRICULTURE EFFECTS OF AIR POLLUTION ON AGRICULTURE HUMAN HEALTH HAZARDS IMPACT ON CLIMATE AIR QUALITY UPPER ATMOSPHERIC RESEARCH HUMAN HEALTH
802	L-171	AIR QUALITY	
802	L-169	AIR QUALITY	
802	L-1	AIR QUALITY	
802	L-171	AIR QUALITY	
802	L-32	AIR QUALITY	
802	L-32	AIR QUALITY	
802	L-32	AIR QUALITY	
802	L-32	AIR QUALITY	
802	L-33	AIR QUALITY	
802	L-171	GLOBAL WEATHER	
802	L-169	GLOBAL WEATHER	
802	L-0	CLIMATE	
SPECIAL THERMAL SOURCES	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
SPECIES IDENTIFICATION	L-1	CRYOSPHERE	POLAR ECOLOGY
STANDING WATER LOCATION	L-11	COASTAL ZONE	COASTAL RESOURCES STUDIES
STORM DURATION	L-0	SEVERE STORMS	LIGHTNING PREDICTION/WARNING WARNING AND EVACUATION SCHEMES FOREST FIRE WEATHER
STORM DURATION	L-72	SEVERE STORMS	
STORM EXTENT	L-0	SEVERE STORMS	WARNING AND EVACUATION SCHEMES FOREST FIRE WEATHER
STORM EXTENT	L-72	SEVERE STORMS	
STORM INTENSITY	L-100	WATER RESOURCES	FLOOD AREA MAPPING FLOOD DAMAGE ASSESSMENT TRAFFIC MANAGEMENT THUNDERSTORM PREDICTION & WARNING LIGHTNING PREDICTION/WARNING HURRICANE PREDICTION/WARNING
STORM INTENSITY	L-0	WATER RESOURCES	
STORM INTENSITY	L-25	OCEAN PROCESSES	
STORM INTENSITY	L-0	SEVERE STORMS	
STORM INTENSITY	L-13	SEVERE STORMS	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMUNALITY DATA BASE

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Table 4.4.1 Commonality of Parameters by Application (cont.)

[illegible]

Table 4.4.1 Commonality of Parameters by Application (cont.)



COMMONALITY DATA BASE

		SELECTION 4.			
PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE		
STRUCTURAL FEATURES	0-6	GEODYNAMICS	DESERT AREA STUDIES		
STRUCTURAL FEATURES	0-10	GEODYNAMICS	TECTONIC STUDIES		
STRUCTURAL FEATURES	0-12	GEODYNAMICS	TECTONIC STUDIES		
STRUCTURAL FEATURES	0-1	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-2	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-6	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-17	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-14	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-9	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-15	GEODYNAMICS	GEOLOGICAL MAPPING		
STRUCTURAL FEATURES	0-24	GEODYNAMICS	FAULT, FRACTURE MAPPING		
STRUCTURAL FEATURES	0-21	GEODYNAMICS	LINEAMENT MAPPING		
STRUCTURAL FEATURES	0-11	NON-RENEWABLE RESOURCES	MINERAL & ENERGY RESOURCES SURVEYS		
STRUCTURAL FEATURES	0-3	NON-RENEWABLE RESOURCES	MINERAL & ENERGY RESOURCES SURVEYS		
STRUCTURAL FEATURES	0-3	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES		
STRUCTURAL FEATURES	0-1	NON-RENEWABLE RESOURCES	GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION		
STRUCTURAL FEATURES	0-2	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING		
STRUCTURAL FEATURES	0-5	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING		
STRUCTURAL FEATURES	0-8	NON-RENEWABLE RESOURCES	STRUCTURAL GEOLOGIC MAPPING		
STRUCTURAL FEATURES	0-14	NON-RENEWABLE RESOURCES	ENGINEERING/CONSTRUCTION IMPACTS		
STRUCTURAL FEATURES	L-1	NON-RENEWABLE RESOURCES			
SUBLIMATION RATE	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE		
SUBSURFACE CURRENTS	L-29	GLOBAL WEATHER	GENERAL OCEAN CIRCULATION		
SUBSURFACE SOIL MOISTURE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT		
SUBSURFACE SOIL MOISTURE	L-112	WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT		
SUBSURFACE SOIL MOISTURE	L-114	WATER RESOURCES	EVAPOTRANSPIRATION MODELING		
SULFATES	L-107	AIR QUALITY	POLLUTION MODELING		
SULFUR	L-100	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY		
SULFUR	L-169	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT		
SULFUR	L-169	AIR QUALITY	OZONE LEVEL DETERMINATION		
SULFUR COMPOUNDS	L-169	AIR QUALITY	VOLCANO/FOREST FIRE MONITORING		
SULFUR COMPOUNDS	L-108	AIR QUALITY	OZONE LEVEL DETERMINATION		
SULFUR OXIDES	L-0	AIR QUALITY	IMPACT ON TRAFFIC SAFETY		
SUP-COOLED WATERDROP CONCEN	L-70	GLOBAL WEATHER	WEATHER MODIFICATION		

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	DISCIPLINE TITLE	APPLICATION TITLE
BURFAC WIND SPEED	CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION
	LAND USE	CROP YIELD MANAGEMENT
SURFACE AIR TEMP	LAND USE	GRASSLAND MANAGEMENT
SURFACE AIR TEMP	LAND USE	GRASSLAND MANAGEMENT
SURFACE AIR TEMP	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
SURFACE AIR TEMP	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
SURFACE AIR TEMP	AGRICULTURE	AGRONOMY MANAGEMENT
SURFACE AIR TEMP	AGRICULTURE	AGRONOMY RESEARCH
SURFACE AIR TEMP	AGRICULTURE	GRASSLANDS MANAGEMENT
SURFACE AIR TEMP	AGRICULTURE	GRAZING LANDS MANAGEMENT
SURFACE AIR TEMP	AGRICULTURE	FOREST MANAGEMENT
SURFACE AIR TEMP	AGRICULTURE	FOREST RESEARCH
SURFACE AIR TEMP	WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION
SURFACE AIR TEMP	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
SURFACE AIR TEMP	WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT
SURFACE AIR TEMP	WATER RESOURCES	OPERATION/NAVIGATION ASSESSMENT
SURFACE AIR TEMP	WATER RESOURCES	OPERATION/NAVIGATION ASSESSMENT
SURFACE AIR TEMP	COASTAL ZONE	LIVING MARINE RESOURCES
SURFACE AIR TEMP	COASTAL ZONE	OCEAN ENGINEERING
SURFACE AIR TEMP	COASTAL ZONE	OCEAN ENGINEERING
SURFACE AIR TEMP	COASTAL ZONE	OCEAN CONDITION FORECASTING
SURFACE AIR TEMP	COASTAL ZONE	COASTAL WEATHER FORECASTS
SURFACE AIR TEMP	COASTAL ZONE	WEATHER FORECASTS
SURFACE AIR TEMP	COASTAL ZONE	SEVERE STORM WARNINGS AND FORECASTS
SURFACE AIR TEMP	COASTAL ZONE	ATMOS THERMAL BALANCE ASSESSMENT
SURFACE AIR TEMP	COASTAL ZONE	GLOBAL THERMAL BALANCE
SURFACE AIR TEMP	COASTAL ZONE	OCEAN ATMOSPHERIC INTERACTION
SURFACE AIR TEMP	COASTAL ZONE	AGRICULTURE
SURFACE AIR TEMP	COASTAL ZONE	DEFENSE STRATEGIC PLANNING
SURFACE AIR TEMP	COASTAL ZONE	GENERAL CIRCULATION MODEL
SURFACE CURRENT PATTERN	COASTAL ZONE	COASTAL RESOURCES STUDIES
SURFACE MELTING	GLOBAL WEATHER	ICE IMPACT ON WEATHER
	CRYOSPHERE	SEA ICE HAZARD MONITORING & PREDICTION
SURFACE PRESSURE	CRYOSPHERE	SEA ICE DYNAMICS
SURFACE PRESSURE	CRYOSPHERE	THUNDERSTORM PREDICTION & WARNING
SURFACE PRESSURE	CRYOSPHERE	COASTAL FLOODING
SURFACE PRESSURE	CRYOSPHERE	BLIZZARD FORECASTING
SURFACE PRESSURE	CRYOSPHERE	LOCAL STORM SURGE DETECTION
SURFACE PRESSURE	CRYOSPHERE	LOCAL STORM INTENSITY MEASUREMENT
SURFACE PRESSURE	CRYOSPHERE	SEVERE STORM DETECTION
SURFACE PRESSURE	CRYOSPHERE	DETERMINATION OF SEVERE STORM INDICES
SURFACE PRESSURE	CRYOSPHERE	AIRCRAFT ROUTING CONSIDERATION
SURFACE PRESSURE	CRYOSPHERE	REDUCING INTENSITY OF HURRICANES

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4.

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SURFACE WATER TEMP	L-0	WATER QUALITY	POLLUTION MODELING
SURFACE WATER TEMP	L-162	WATER QUALITY	POLLUTION MONITORING
SURFACE WATER TEMP	L-1	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SURFACE WATER TEMP	L-162	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SURFACE WATER TEMP	L-161	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SURFACE WATER TEMP	L-117	WATER QUALITY	WATER QUALITY ANALYSIS
SURFACE WATER TEMP	L-162	OCEAN PROCESSES	MARINE GEOLOGY
SURFACE WATER TEMP	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
SURFACE WATER TEMP	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
SURFACE WATER TEMP	L-162	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
SURFACE WATER TEMP	L-165	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
SURFACE WATER TEMP	L-1	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
SURFACE WATER TEMP	L-0	GLOBAL WEATHER	GLOBAL THERMAL BALANCE
SURFACE WATER TEMP	L-161	CLIMATE	AGRICULTURE
SURFACE WATER TEMP	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
SURFACE WATER TEMP	L-163	CLIMATE	MILITARY OPERATION PLANNING
SURFACE WATER TEMP	L-78	CLIMATE	ENERGY DEMAND
SURFACE WATER TEMP	L-78	CLIMATE	TRANSPORTATION
SURFACE WIND	L-0	CLIMATE	HUMAN HEALTH
SURFACE WIND AMP	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
SURFACE WIND DIR	L-162	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
SURFACE WIND DIR	L-153	GLOBAL WEATHER	ARCTIC AND SUBARCTIC SEAS
SURFACE WIND DIR	L-200	GLOBAL WEATHER	SOUTHERN OCEANS
			OCEAN ATMOSPHERIC INTERACTION
SURFACE WIND SPEED	L-113	WATER RESOURCES	PLAYA LAKE INVENTORY
SURFACE WIND SPEED	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
SURFACE WIND SPEED	L-100	WATER RESOURCES	HYDROLOGIC MODEL DEVELOPMENT
SURFACE WIND SPEED	L-110	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
SURFACE WIND SPEED	L-162	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
SURFACE WIND SPEED	L-117	WATER QUALITY	WATER QUALITY ANALYSIS
SURFACE WIND SPEED	L-0	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SURFACE WIND SPEED	L-34	CRYOSPHERE	ICE IMPACT ON WEATHER AND CLIMATE
SURFACE WIND SPEED	L-34	CRYOSPHERE	SEA ICE DYNAMICS
SURFACE WIND SPEED	L-0	CRYOSPHERE	ICEBERG MOVEMENT
SURFACE WIND SPEED	L-71	SEVERE STORMS	COASTAL FLOODS
SURFACE WIND SPEED	L-72	GLOBAL WEATHER	FOREST FIRE WEATHER
SURFACE WIND SPEED	L-0	GLOBAL WEATHER	FOREST FIRE WEATHER
SURFACE WIND SPEED	L-0	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
SURFACE WIND SPEED	L-153	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
SURFACE WIND SPEED	L-153	GLOBAL WEATHER	ARCTIC AND SUBARCTIC SEAS
SURFACE WIND SPEED	L-200	GLOBAL WEATHER	SOUTHERN OCEANS
SURFACE WIND SPEED	L-0	CLIMATE	OCEAN ATMOSPHERIC INTERACTION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
SUSPENDED PARTICLE CONCEN	L-160	WATER QUALITY	POLLUTION MONITORING
SUSPENDED PARTICLE CONCEN	L-2	WATER QUALITY	POLLUTION CONTROL
SUSPENDED PARTICLE CONCEN	L-160	WATER QUALITY	POLLUTION CONTROL
SUSPENDED PARTICLE CONCEN	L-102	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SUSPENDED PARTICLE CONCEN	L-160	WATER QUALITY	POLLUTANT EFFECTS ON BIOPROCESSES
SUSPENDED PARTICLE CONCEN	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
SUSPENDED PARTICLE CONCEN	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
SUSPENDED PARTICLE CONCEN	L-160	OCEAN PROCESSES	OCEAN CONDITION FORCASTING
SUSPENDED PARTICLE CONCEN	L-100	OCEAN PROCESSES	PHYSICAL OCEAN RESEARCH
SUSPENDED PARTICLE CONCEN	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
SUSPENDED SEDIMENT CONCEN	2-18	LAND USE	ENVIRONMENTAL MANAGEMENT
SUSPENDED SEDIMENT CONCEN	2-18	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
SUSPENDED SEDIMENT CONCEN	2-18	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
SUSPENDED SEDIMENT LOAD	2-19	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
SUSPENDED SEDIMENT LOAD	2-19	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TEMP ANOMOLIES	L-167	CLIMATE	LAND USE
TEMP LAPSE RATE	L-0	SEVERE STORMS	CLOUD GROWTH RATE RELATIONSHIP
TEMP PROF	L-14	SEVERE STORMS	TORNADO PREDICTION & WARNING
TEMP PROF	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
TEMP PROF	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
TEMP PROF	L-15	SEVERE STORMS	CROP FREEZE POTENTIAL ASSESSMENT
TEMP PROF	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
TERRAIN TYPE	U-11	LAND USE	WILDLIFE HABITATE INFERENCE MAPPING
TERRAIN TYPE	A-32	AGRICULTURE	SOIL CLASSIFICATION
TERRAIN TYPE	A-71	AGRICULTURE	FOREST TYPE DELINEATION
TERRAIN TYPE	A-64	AGRICULTURE	ABiotic STRESSES ON RANGELANDS
TERRAIN TYPE	A-64	AGRICULTURE	ABiotic STRESSES ON CROPS
TERRAIN TYPE	A-69	AGRICULTURE	ABiotic STRESSES ON CROPS
TERRAIN TYPE	A-69	AGRICULTURE	ABiotic STRESSES ON CROPS
TERRAIN TYPE	A-32	AGRICULTURE	ABiotic STRESSES ON CROPS
TERRAIN TYPE	A-71	AGRICULTURE	FOREST CONDITION MONITORING
TERRAIN TYPE	A-70	AGRICULTURE	FOREST INSECT DAMAGE
TERRAIN TYPE	A-71	AGRICULTURE	FOREST INSECT DAMAGE
TERRAIN TYPE	A-52	AGRICULTURE	FOREST INSECT DAMAGE
TERRAIN TYPE	L-1	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TERRAIN TYPE	L-3	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TERRAIN TYPE	L-4	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TERRAIN TYPE	2-1	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)

[illegible]

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMUNALITY DATA BASE

SELECTION 4:

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
TIDAL EFFECTS	Z-10	LAND USE	WETLAND MANAGEMENT
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MONITORING
TIDAL EFFECTS	Z-10	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL PERIOD	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
TIDAL PERIOD	L-0	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL PERIOD	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL PERIOD	L-1	SEVERE STORMS	COASTAL RESOURCES STUDIES
TIDAL PERIOD	L-1	SEVERE STORMS	LOCAL STORM SURGE DETECTION
TIDAL PROPERTIES	Z-18	LAND USE	ENVIRONMENTAL MANAGEMENT
TIDAL PROPERTIES	Z-17	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TIDAL PROPERTIES	Z-18	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
TIDAL PROPERTIES	Z-14	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
TIDAL PROPERTIES	Z-17	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL PROPERTIES	Z-18	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL RANGE	L-105	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY
TIDAL RANGE	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL RANGE	L-2	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL RANGE	L-27	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
TIDAL RANGE	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TIDAL RANGE	Z-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TIDAL RANGE	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TIDAL RANGE	L-55	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
TIDAL RANGE	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
TIDAL RANGE	Z-1	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL RANGE	L-0	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL RANGE	L-2	COASTAL ZONE	COASTAL, ESTUARY AND OCEAN ENGINEERING
TIDAL RANGE	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL RANGE	L-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL RANGE	L-3	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL RANGE	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL RANGE	Z-1	COASTAL ZONE	COASTAL RESOURCES STUDIES
TIDAL RANGE	L-1	SEVERE STORMS	LOCAL STORM SURGE DETECTION
TOPOGRAPHIC FEATURES	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
TOPOGRAPHIC FEATURES	L-170	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING
TOPOGRAPHIC FEATURES	L-167	LAND USE	LAND USE MANAGEMENT
TOPOGRAPHIC FEATURES	L-167	LAND USE	LAND USE MANAGEMENT
TOPOGRAPHIC FEATURES	L-170	LAND USE	LAND CARTOGRAPHY
TOPOGRAPHIC FEATURES	U-8	LAND USE	LAND USE IMPACT ASSESSMENT
TOPOGRAPHIC FEATURES	U-9	LAND USE	RESOURCE IMPACT PLANNING
TOPOGRAPHIC FEATURES	L-105	WATER RESOURCES	WETLANDS MAPPING AND INVENTORY

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4

UNIVERSAL TIME	PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
UPBURST	UPPER OCEAN HEAT STORAGE	L-11	OCEAN PROCESSES	AIRCRAFT ROUTING CONSIDERATION
	UPPER OCEAN HEAT STORAGE	L-160	GLOBAL WEATHER	
	UPPER OCEAN HEAT STORAGE	L-66	GLOBAL WEATHER	
	UPPER OCEAN HEAT STORAGE	L-11	GLOBAL WEATHER	
UPPER OCEAN LAYER TEMP	UPPER OCEAN LAYER TEMP	L-1	CLIMATE	GENERAL CIRCULATION MODEL
	UPWELLING EXTENT	L-167	LAND USE	
	UPWELLING EXTENT	L-167	LAND USE	
	UPWELLING EXTENT	L-167	LAND USE	
UPWELLING LOCATION	UPWELLING LOCATION	L-1	OCEAN PROCESSES	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY OCEAN DYNAMICS FISHERY MANAGEMENT FISHERY MANAGEMENT OCEAN ROLE IN THE CLIMATIC CHANGE CHEMICAL OCEAN RESEARCH MARINE GEOLOGY LIVING MARINE RESOURCES OCEAN ENGINEERING OCEAN CONDITION FORECASTING PHYSICAL OCEAN RESEARCH OCEAN CONTAMINATION GLOBAL CONVECTIVE BALANCE OCEAN ATMOSPHERIC INTERACTION OCEAN ATMOSPHERIC INTERACTION
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
	UPWELLING LOCATION	L-167	OCEAN PROCESSES	
UPWELLING LOCATION	UPWELLING LOCATION	L-167	LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY POLLUTION MONITORING OCEAN DYNAMICS FISHERY MANAGEMENT FISHERY MANAGEMENT OCEAN ROLE IN THE CLIMATIC CHANGE CHEMICAL OCEAN RESEARCH MARINE GEOLOGY LIVING MARINE RESOURCES OCEAN ENGINEERING OCEAN CONDITION FORECASTING PHYSICAL OCEAN RESEARCH OCEAN CONTAMINATION GLOBAL CONVECTIVE BALANCE OCEAN ATMOSPHERIC INTERACTION
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	
	UPWELLING LOCATION	L-167	LAND USE	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



PARAMETER	REFER	SELECTION 4:		APPLICATION TITLE
		DISCIPLINE TITLE	LAND USE	
URBAN LAND USE	L-167			CARTOGRAPHY
VECTOR FLOW FIELD	L-153		OCEAN PROCESSES	OCEAN BIOLOGY
VEGETATIVE CONDITION	A-39	AGRICULTURE		VEGETATION CLASSIFICATION
VEGETATIVE CONDITION	A-6	AGRICULTURE		YIELD/PRODUCTIVITY STUDIES
VEGETATIVE CONDITION	A-6	AGRICULTURE		YIELD/PRODUCTIVITY STUDIES
VEGETATIVE CONDITION	A-28	AGRICULTURE		RANGELAND CONDITION MONITORING
VEGETATIVE CONDITION	L-167	AGRICULTURE		FOREST TYPE DELINEATION
VEGETATIVE CONDITION	A-23	AGRICULTURE		ACREAGE INVENTORY
VEGETATIVE CONDITION	A-45	AGRICULTURE		SPECTRAL SEPARABILITY OF CROPS
VEGETATIVE CONDITION	A-51	AGRICULTURE		VEGETATIVE CONDITION MONITORING
VEGETATIVE CONDITION	A-40	AGRICULTURE		VEGETATIVE CONDITION MONITORING
VEGETATIVE CONDITION	A-64	AGRICULTURE		CROP INSECT DAMAGE
VEGETATIVE CONDITION	A-50	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-48	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-74	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-69	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-69	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-69	AGRICULTURE		ABIOLOGIC STRESSES ON CROPS
VEGETATIVE CONDITION	A-5	AGRICULTURE		BIOMASS ESTIMATION
VEGETATIVE CONDITION	A-6	AGRICULTURE		YIELD MODELING
VEGETATIVE CONDITION	A-2	AGRICULTURE		FOREST CLASSIFICATIONS
VEGETATIVE CONDITION	A-39	AGRICULTURE		FOREST CLASSIFICATIONS
VEGETATIVE CONDITION	A-57	AGRICULTURE		FOREST CONDITION MONITORING
VEGETATIVE CONDITION	A-46	AGRICULTURE		FOREST CONDITION MONITORING
VEGETATIVE CONDITION	A-71	AGRICULTURE		FOREST CONDITION MONITORING
VEGETATIVE CONDITION	A-62	AGRICULTURE		FOREST CONDITION MONITORING
VEGETATIVE CONDITION	A-57	AGRICULTURE		FOREST DISEASES
VEGETATIVE CONDITION	A-60	AGRICULTURE		FOREST DISEASES
VEGETATIVE CONDITION	A-58	AGRICULTURE		FOREST DISEASES
VEGETATIVE CONDITION	A-59	AGRICULTURE		FOREST DISEASES
VEGETATIVE CONDITION	A-68	AGRICULTURE		FOREST DISEASES
VEGETATIVE CONDITION	A-70	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-16	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-38	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-54	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-63	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-52	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-73	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-72	AGRICULTURE		FOREST INSECT DAMAGE
VEGETATIVE CONDITION	A-37	AGRICULTURE		ABIOLOGIC STRESSES ON FORESTS
VEGETATIVE CONDITION	L-167	WATER RESOURCES		ABIOLOGIC STRESSES ON FORESTS
VEGETATIVE CONDITION	L-0	WATER RESOURCES		ABIOLOGIC STRESSES ON FORESTS
VEGETATIVE CONDITION	L-1	NON-RENEWABLE RESOURCES		IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
				FLUORIMETER ASSESSMENT
				STRUCTURAL GEOLOGIC MAPPING

Table 4.4.1 Commonality of Parameters by Application (cont.)

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COMMONALITY DATA BASE



PARAMETER		REFER	DISCIPLINE TITLE	SELECTION 41	APPLICATION TITLE	
VEGETATIVE COVER TYPE	COVER TYPE	0-4	NON-RENEWABLE RESOURCES		STRUCTURAL GEOLOGIC MAPPING STRUCTURAL GEOLOGIC MAPPING MINING ENGINEERING	
VEGETATIVE COVER TYPE	COVER TYPE	L-158	NON-RENEWABLE RESOURCES			
VEGETATIVE COVER TYPE	COVER TYPE	0-18	NON-RENEWABLE RESOURCES			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY RANGELAND CONDITION MONITORING AGRONOMY MANAGEMENT AGRONOMY RESEARCH GRASSLANDS MANAGEMENT GRAZING LANDS MANAGEMENT FOREST MANAGEMENT FOREST RESEARCH	
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	LAND USE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	LAND USE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE EXTENT	DAMAGE EXTENT	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY RANGELAND CONDITION MONITORING AGRONOMY MANAGEMENT AGRONOMY RESEARCH GRASSLANDS MANAGEMENT GRAZING LANDS MANAGEMENT FOREST MANAGEMENT FOREST RESEARCH	
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	LAND USE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	LAND USE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE DAMAGE TYPE	DAMAGE TYPE	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-0	LAND USE		SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CARTOGRAPHY RANGELAND CONDITION MONITORING AGRONOMY MANAGEMENT AGRONOMY RESEARCH GRASSLANDS MANAGEMENT GRAZING LANDS MANAGEMENT FOREST MANAGEMENT FOREST RESEARCH EVAPOTRANSPIRATION MODELING FISH YIELD MANAGEMENT LIVING MARINE RESOURCES OCEAN CONTAMINATION AGRICULTURE GENERAL CIRCULATION MODEL	
VEGETATIVE EXTENT	EXTENT	L-167	LAND USE			
VEGETATIVE EXTENT	EXTENT	L-167	LAND USE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-167	AGRICULTURE			
VEGETATIVE EXTENT	EXTENT	L-100	WATER RESOURCES			
VEGETATIVE EXTENT	EXTENT	L-167	OCEAN PROCESSES			
VEGETATIVE EXTENT	EXTENT	L-160	OCEAN PROCESSES			
VEGETATIVE EXTENT	EXTENT	L-160	OCEAN PROCESSES			
VEGETATIVE EXTENT	EXTENT	L-161	CLIMATE			
VEGETATIVE EXTENT	EXTENT	L-1	CLIMATE			
VEGETATIVE MOISTURE	MOISTURE	L-100	WATER RESOURCES			FLOOD AREA MAPPING FLOOD AREA MAPPING
VEGETATIVE MOISTURE	MOISTURE	L-160	WATER RESOURCES			
VEGETATIVE PATTERNS	PATTERNS	L-167	LAND USE		WETLAND MANAGEMENT	

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VEGETATIVE PATTERNS	U-9	LAND USE	RESOURCE IMPACT PLANNING
VEGETATIVE PATTERNS	A-39	AGRICULTURE	VEGETATION CLASSIFICATION
VEGETATIVE PATTERNS	A-32	AGRICULTURE	SOIL CLASSIFICATION
VEGETATIVE PATTERNS	A-71	AGRICULTURE	FOREST TYPE DELINEATION
VEGETATIVE PATTERNS	A-39	AGRICULTURE	ACREAGE INVENTORY
VEGETATIVE PATTERNS	A-64	AGRICULTURE	ABIOTIC STRESSES ON RANGELANDS
VEGETATIVE PATTERNS	A-23	AGRICULTURE	SPECTRAL SEPARABILITY OF CRUPS
VEGETATIVE PATTERNS	A-64	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-50	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-74	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-65	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-69	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-69	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-69	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-32	AGRICULTURE	ABIOTIC STRESSES ON CRUPS
VEGETATIVE PATTERNS	A-2	AGRICULTURE	SOIL MAPPING
VEGETATIVE PATTERNS	A-1	AGRICULTURE	FOREST CLASSIFICATIONS
VEGETATIVE PATTERNS	A-36	AGRICULTURE	FOREST CLASSIFICATIONS
VEGETATIVE PATTERNS	A-34	AGRICULTURE	FOREST COVER TYPE MAPPING
VEGETATIVE PATTERNS	A-71	AGRICULTURE	FOREST CONDITION MONITORING
VEGETATIVE PATTERNS	A-42	AGRICULTURE	FOREST CONDITION MONITORING
VEGETATIVE PATTERNS	A-60	AGRICULTURE	FOREST DISEASES
VEGETATIVE PATTERNS	A-58	AGRICULTURE	FOREST DISEASES
VEGETATIVE PATTERNS	A-59	AGRICULTURE	FOREST DISEASES
VEGETATIVE PATTERNS	A-68	AGRICULTURE	FOREST INSECT DAMAGE
VEGETATIVE PATTERNS	A-70	AGRICULTURE	FOREST INSECT DAMAGE
VEGETATIVE PATTERNS	A-16	AGRICULTURE	FOREST INSECT DAMAGE
VEGETATIVE PATTERNS	A-67	AGRICULTURE	FOREST INSECT DAMAGE
VEGETATIVE PATTERNS	A-43	AGRICULTURE	FOREST INSECT DAMAGE
VEGETATIVE PATTERNS	A-72	AGRICULTURE	ABIOTIC STRESSES ON FORESTS
VEGETATIVE PATTERNS	L-102	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-102	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER RESOURCES	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-160	WATER RESOURCES	DAMS AND RESERVOIRS SURVEY
VEGETATIVE PATTERNS	L-100	WATER RESOURCES	WATER MODELING STUDIES
VEGETATIVE PATTERNS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-102	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-167	WATER QUALITY	LAKE CLASSIFICATION RESEARCH
VEGETATIVE PATTERNS	L-101	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
VEGETATIVE PATTERNS	Q-101	GEODYNAMICS	LANDFORM MAPPING
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMUNALITY DATA BASE

SELECTION 4:

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	METAL AND ORE EXPLORATION
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	HYDROCARBON & ENERGY-PRODUCING RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
VEGETATIVE PATTERNS	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
VEGETATIVE PATTERNING	L-10	NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES
VEGETATIVE TYPE	L-167	LAND USE	LAND USE MANAGEMENT
VEGETATIVE TYPE	L-167	LAND USE	CARTOGRAPHY
VEGETATIVE TYPE	Z-10	LAND USE	WETLAND MANAGEMENT
VEGETATIVE TYPE	L-167	AGRICULTURE	RANGELAND CONDITION MONITORING
VEGETATIVE TYPE	L-167	AGRICULTURE	AGRONOMY MANAGEMENT
VEGETATIVE TYPE	L-167	AGRICULTURE	AGRONOMY RESEARCH
VEGETATIVE TYPE	L-167	AGRICULTURE	GRASSLANDS MANAGEMENT
VEGETATIVE TYPE	L-167	AGRICULTURE	GRAZING LANDS MANAGEMENT
VEGETATIVE TYPE	L-167	AGRICULTURE	FOREST MANAGEMENT
VEGETATIVE TYPE	L-167	AGRICULTURE	FOREST RESEARCH
VEGETATIVE TYPE	L-167	WATER RESOURCES	IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
VEGETATIVE TYPE	L-167	WATER RESOURCES	COASTAL ENVIRONMENT MAPPING
VEGETATIVE TYPE	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
VEGETATIVE TYPE	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
VEGETATIVE TYPE	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MAPPING
VEGETATIVE TYPE	Z-10	COASTAL ZONE	COASTAL ENVIRONMENT MONITORING
VEGETATIVE TYPE	Z-10	COASTAL ZONE	COASTAL ESTUARY AND OCEAN ENGINEERING
VEGETATIVE TYPE	L-167	OCEAN PROCESSES	LIVING MARINE RESOURCES
VEGETATIVE TYPE	L-160	OCEAN PROCESSES	OCEAN CONTAMINATION
VERT HUMIDITY PROF	L-160	WATER RESOURCES	SOIL MOISTURE STUDIES
VERT HUMIDITY PROF	L-109	WATER RESOURCES	SOIL MOISTURE STUDIES
VERT HUMIDITY PROF	L-0	WATER RESOURCES	PRECIPITATION
VERT HUMIDITY PROF	L-103	CRYOSPHERE	HEAT BUDGET OF POLAR SEAS
VERT HUMIDITY PROF	L-169	AIR QUALITY	ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
VERT HUMIDITY PROF	L-0	AIR QUALITY	OZONE LEVEL DETERMINATION
VERT HUMIDITY PROF	L-0	AIR QUALITY	TROPOSPHERIC AEROSOLS
VERT HUMIDITY PROF	L-200	OCEAN PROCESSES	OCEAN CLIMATE
VERT HUMIDITY PROF	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORCASTING
VERT HUMIDITY PROF	L-75	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
VERT HUMIDITY PROF	L-73	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VERT HUMIDITY PROF	L-14	SEVERE STORMS	TORNADO PREDICTION & WARNING
VERT HUMIDITY PROF	L-0	SEVERE STORMS	WATERSPOUT PREDICTION & WARNING
VERT HUMIDITY PROF	L-28	SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION
VERT HUMIDITY PROF	L-28	SEVERE STORMS	HURRICANE PREDICTION/WARNING
VERT HUMIDITY PROF	L-162	SEVERE STORMS	HURRICANE PREDICTION/WARNING
VERT HUMIDITY PROF	L-28	SEVERE STORMS	COASTAL FLOODS
VERT HUMIDITY PROF	L-28	SEVERE STORMS	ANTECEDENT CONDITION DETERMINATIONS
VERT HUMIDITY PROF	L-0	SEVERE STORMS	CLOUD PHYSICS
VERT HUMIDITY PROF	L-160	GLOBAL WEATHER	REDUCING INTENSITY OF HURRICANES
VERT HUMIDITY PROF	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT HUMIDITY PROF	L-165	GLOBAL WEATHER	WEATHER FORECASTS
VERT HUMIDITY PROF	L-171	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
VERT HUMIDITY PROF	L-171	GLOBAL WEATHER	AIR QUALITY
VERT HUMIDITY PROF	L-0	GLOBAL WEATHER	AIR QUALITY
VERT HUMIDITY PROF	L-0	GLOBAL WEATHER	ATMOS THERMAL BALANCE ASSESSMENT
VERT HUMIDITY PROF	L-0	GLOBAL WEATHER	ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT
VERT HUMIDITY PROF	L-0	GLOBAL WEATHER	GLOBAL WATER BALANCE
VERT HUMIDITY PROF	L-1	GLOBAL WEATHER	ATMOSPHERIC WATER BALANCE ASSESSMENT
VERT HUMIDITY PROF	L-200	GLOBAL WEATHER	MONSOON EXPERIMENT
VERT HUMIDITY PROF	L-153	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
VERT HUMIDITY PROF	L-169	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
VERT HUMIDITY PROF	L-1	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
VERT HUMIDITY PROF	L-161	CLIMATE	WEATHER RESEARCH FOR FUTURE APPLICATIONS
VERT HUMIDITY PROF	L-163	CLIMATE	AGRICULTURE
VERT HUMIDITY PROF	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
VERT HUMIDITY PROF	L-78	CLIMATE	MILITARY OPERATION PLANNING
VERT HUMIDITY PROF	L-78	CLIMATE	ENERGY DEMAND
VERT LAND TEMP PROF	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT LAND TEMP PROF	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
VERT OCEAN TEMP PROF	L-160	OCEAN PROCESSES	LIVING MARINE RESOURCES
VERT OCEAN TEMP PROF	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
VERT OCEAN TEMP PROF	L-162	OCEAN PROCESSES	OCEAN ENGINEERING
VERT OCEAN TEMP PROF	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
VERT OCEAN TEMP PROF	L-160	OCEAN PROCESSES	SHALLOW WATER BATHYMETRY
VERT PRESSURE PROF	L-0	AIR QUALITY	TROPOSPHERIC AEROSOLS
VERT PRESSURE PROF	L-76	SEVERE STORMS	WATERSPOUT PREDICTION & WARNING
VERT PRESSURE PROF	L-0	SEVERE STORMS	LIGHTNING PREDICTION/WARNING
VERT PRESSURE PROF	L-165	SEVERE STORMS	HURRICANE PREDICTION/WARNING
VERT PRESSURE PROF	L-0	SEVERE STORMS	REDUCING INTENSITY OF HURRICANES
VERT PRESSURE PROF	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT PRESSURE PROF	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT PRESSURE PROF	L-171	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
VERT PRESSURE PROF	L-171	GLOBAL WEATHER	AIR QUALITY
VERT PRESSURE PROF	L-0	GLOBAL WEATHER	AIR QUALITY
VERT PRESSURE PROF	L-1	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
VERT PRESSURE PROF	L-1	GLOBAL WEATHER	ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

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SELECTION. 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VERT TEMP PROF	L-63	GLOBAL WEATHER	MONSOON EXPERIMENT
VERT TEMP PROF	L-66	GLOBAL WEATHER	TROPICAL STRATOSPHERIC WAVES
VERT TEMP PROF	L-69	GLOBAL WEATHER	BAROCLINIC INSTABILITY
VERT TEMP PROF	L-200	GLOBAL WEATHER	OCEAN ATMOSPHERIC INTERACTION
VERT TEMP PROF	L-169	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH
VERT TEMP PROF	L-1	CLIMATE	WEATHER RESEARCH FOR FUTURE APPLICATIONS
VERT TEMP PROF	L-161	CLIMATE	AGRICULTURE
VERT TEMP PROF	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
VERT TEMP PROF	L-163	CLIMATE	MILITARY OPERATION PLANNING
VERT TEMP PROF	L-78	CLIMATE	ENERGY DEMAND
VERT TEMP PROF	L-78	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
VERT TEMP PROF	L-77	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
VERT VELOCITY	L-0	AIR QUALITY	ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
VERT VELOCITY	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
VERT VELOCITY	L-14	SEVERE STORMS	TORNADO PREDICTION & WARNING
VERT VELOCITY	L-7a	SEVERE STORMS	WATERSPOUT PREDICTION & WARNING
VERT VELOCITY	L-0	SEVERE STORMS	LOCAL STORM INTENSITY MEASUREMENT
VERT VELOCITY	L-0	SEVERE STORMS	CLOUD GROWTH RATE RELATIONSHIP
VERT WATER TEMP PROF	L-160	LAND USE	SURFACE WATER INVENTORY
VERT WATER TEMP PROF	L-167	WATER QUALITY	POLLUTION MONITORING
VERT WIND CONVECT DUCTS LOC	L-160	LAND USE	CROP YIELD MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-170	LAND USE	GRASSLAND MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	AGRICULTURE RESEARCH
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	FOREST LANDS MANAGEMENT
VERT WIND CONVECT DUCTS LOC	L-160	AGRICULTURE	FOREST RESEARCH
VERT WIND CONVECT DUCTS LOC	L-32	AIR QUALITY	HUMAN HEALTH HAZARDS
VERT WIND CONVECT DUCTS LOC	L-160	OCEAN PROCESSES	MARINE GEOLOGY
VERT WIND CONVECT DUCTS LOC	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
VERT WIND CONVECT DUCTS LOC	L-160	OCEAN PROCESSES	OCEAN CONDITION FORECASTING
VERT WIND CONVECT DUCTS LOC	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT WIND CONVECT DUCTS LOC	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT WIND CONVECT DUCTS LOC	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
VERT WIND CONVECT DUCTS LOC	L-160	GLOBAL WEATHER	AIR QUALITY
VERT WIND CONVECT DUCTS LOC	L-0	GLOBAL WEATHER	AIR QUALITY
VERT WIND CONVECT DUCTS LOC	L-69	GLOBAL WEATHER	GLOBAL CONVECTIVE BALANCE
VERT WIND CONVECT DUCTS LOC	L-167	GLOBAL WEATHER	BAROCLINIC INSTABILITY
VERT WIND CONVECT DUCTS LOC	L-163	CLIMATE	UPPER ATMOSPHERIC RESEARCH
VERT WIND CONVECT DUCTS LOC	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
VERT WIND CONVECT DUCTS LOC	L-0	CLIMATE	MILITARY OPERATION PLANNING
VERT WIND CONVECT DUCTS LOC	L-0	CLIMATE	TRANSFORMATION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 41

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VERT WIND CONVECT DUCTS SIZE	L-160	LAND USE	CROP YIELD MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-170	LAND USE	GRAZING LAND MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-170	AGRICULTURE	GRASSLAND MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	AGRONOMY RESEARCH
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	FOREST MANAGEMENT
VERT WIND CONVECT DUCTS SIZE	L-160	AGRICULTURE	FOREST RESEARCH
VERT WIND CONVECT DUCTS SIZE	L-32	AIR QUALITY	HUMAN HEALTH HAZARDS
VERT WIND CONVECT DUCTS SIZE	L-160	OCEAN PROCESSES	MARINE GEOLOGY
VERT WIND CONVECT DUCTS SIZE	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
VERT WIND CONVECT DUCTS SIZE	L-160	OCEAN PROCESSES	COASTAL OCEAN CONDITION FORECASTING
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	AIR QUALITY
VERT WIND CONVECT DUCTS SIZE	L-0	GLOBAL WEATHER	GLOBAL CONNECTIVE BALANCE
VERT WIND CONVECT DUCTS SIZE	L-0	GLOBAL WEATHER	BAROCLINIC INSTABILITY
VERT WIND CONVECT DUCTS SIZE	L-29	CLIMATE	UPPER ATMOSPHERIC RESEARCH
VERT WIND CONVECT DUCTS SIZE	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
VERT WIND CONVECT DUCTS SIZE	L-0	CLIMATE	MILITARY TRANSPORTATION
VERT WIND CONVECT DUCTS SIZE	L-110	WATER QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
VERT WIND CONVECT DUCTS SIZE	L-52	AIR QUALITY	PHYSICS OF WATER BORNE POLLUTANTS
VERT WIND CONVECT DUCTS SIZE	L-0	AIR QUALITY	POLLUTION MODELING
VERT WIND CONVECT DUCTS SIZE	L-80	AIR QUALITY	THERMAL POLLUTANTS/TRACKING
VERT WIND CONVECT DUCTS SIZE	L-30	AIR QUALITY	AIR QUALITY INDEX DETERMINATION
VERT WIND CONVECT DUCTS SIZE	L-160	OCEAN PROCESSES	IMPACT ON TRAFFIC SAFETY
VERT WIND CONVECT DUCTS SIZE	L-0	SEVERE STORMS	COASTAL OCEAN CONDITION FORECASTING
VERT WIND CONVECT DUCTS SIZE	L-0	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
VERT WIND CONVECT DUCTS SIZE	L-14	SEVERE STORMS	THUNDERSTORM PREDICTION & WARNING
VERT WIND CONVECT DUCTS SIZE	L-76	SEVERE STORMS	TORNADO PREDICTION & WARNING
VERT WIND CONVECT DUCTS SIZE	L-74	SEVERE STORMS	WATERSPOUT PREDICTION & WARNING
VERT WIND CONVECT DUCTS SIZE	L-0	SEVERE STORMS	AIRCRAFT ROUTING CONSIDERATION
VERT WIND CONVECT DUCTS SIZE	L-0	SEVERE STORMS	REDUCING INTENSITY OF HURRICANES
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	WEATHER FORECASTS
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	SEVERE STORM WARNINGS AND FORECASTS
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	AIR QUALITY
VERT WIND CONVECT DUCTS SIZE	L-160	GLOBAL WEATHER	GLOBAL CONNECTIVE BALANCE
VERT WIND CONVECT DUCTS SIZE	L-0	GLOBAL WEATHER	ATMOSPHERIC CONVECTIVE RAIN ASSESSMENT
VERT WIND CONVECT DUCTS SIZE	L-1	GLOBAL WEATHER	MIDLATITUDE REGIONAL PROBLEMS
VERT WIND CONVECT DUCTS SIZE	L-66	GLOBAL WEATHER	TROPICAL STRATOSPHERIC WAVES
VERT WIND CONVECT DUCTS SIZE	L-66	GLOBAL WEATHER	BAROCLINIC INSTABILITY
VERT WIND CONVECT DUCTS SIZE	L-129	GLOBAL WEATHER	UPPER ATMOSPHERIC RESEARCH

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE

SELECTION 4

PARAMETER	REFER	DISCIPLINE TITLE	APPLICATION TITLE
VERT WIND PROF	L-1	GLOBAL WEATHER	WEATHER RESEARCH FOR FUTURE APPLICATIONS
VERT WIND PROF	L-163	CLIMATE	DEFENSE STRATEGIC PLANNING
VERT WIND PROF	L-78	CLIMATE	MILITARY OPERATION PLANNING
VERT WIND PROF	L-77	CLIMATE	ENERGY DEMAND
VERT WIND PROF	L-78	CLIMATE	RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
VERT WIND PROF	L-167	LAND USE	TRANSPORTATION
VERT WIND PROF	L-170	LAND USE	CROP YIELD MANAGEMENT
VERT WIND PROF	L-170	LAND USE	GRAZING LAND MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	GRASSLAND MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND PROF	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	AGRONOMY RESEARCH
VERT WIND PROF	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	FOREST MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	FOREST RESEARCH
VERT WIND PROF	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
VERT WIND PROF	L-160	LAND USE	CROP YIELD MANAGEMENT
VERT WIND PROF	L-170	LAND USE	GRAZING LAND MANAGEMENT
VERT WIND PROF	L-170	LAND USE	GRASSLAND MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND PROF	L-160	AGRICULTURE	YIELD/PRODUCTIVITY STUDIES
VERT WIND PROF	L-160	AGRICULTURE	AGRONOMY MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	AGRONOMY RESEARCH
VERT WIND PROF	L-160	AGRICULTURE	GRASSLANDS MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	GRAZING LANDS MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	FOREST MANAGEMENT
VERT WIND PROF	L-160	AGRICULTURE	FOREST RESEARCH
VERT WIND PROF	L-160	OCEAN PROCESSES	OCEAN ENGINEERING
VERT WIND PROF	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-34	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-1	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-27	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-35	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-3	COASTAL ZONE	OPERATION/NAVIGATION ASSESSMENT
VERT WIND PROF	L-3	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
VERT WIND PROF	L-2	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
VERT WIND PROF	L-53	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
VERT WIND PROF	L-26	COASTAL ZONE	COASTAL OCEAN CONDITION MONITORING
VERT WIND PROF	L-1	COASTAL ZONE	COASTAL ESTUARY AND OCEAN ENGINEERING
VERT WIND PROF	L-2	COASTAL ZONE	COASTAL RESOURCES STUDIES
VERT WIND PROF	L-1	OCEAN PROCESSES	OCEAN INTERACTIONS
VERT WIND PROF	L-1	SEVERE STORMS	LOCAL STORM SURGE DETECTION
VERT WIND PROF	L-24	SEVERE STORMS	SEVERE STORM DETECTION

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



PARAMETER		DISCIPLINE TITLE		APPLICATION TITLE	
WATER ALBEDO	REFER	L-0 L-0 L-169 L-0 L-163 L-163	GLOBAL WEATHER GLOBAL WEATHER CLIMATE CLIMATE CLIMATE	SELECTION 4,	ATMOS THERMAL BALANCE ASSESSMENT GLOBAL THERMAL BALANCE UPPER ATMOSPHERIC RESEARCH FISHERY DEFENSE STRATEGIC PLANNING MILITARY OPERATION PLANNING
WATER BOTTOM PROF	L-100	WATER RESOURCES	WATER RESOURCES	WATER RESOURCES	WATER TABLES AND GROUND WATER DETECTION
WATER CLARITY	L-102 L-100 L-0 L-102 L-102 L-102	WATER RESOURCES	WATER RESOURCES WATER QUALITY WATER QUALITY WATER QUALITY WATER QUALITY	LAKE CLASSIFICATION RESEARCH WATER TABLES AND GROUND WATER DETECTION MONITORING CONDITIONS OF LAKES LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH POLLUTANT EFFECTS ON BIOPROCESSES	
WATER CONTENT	L-160 L-112 L-112 L-111 L-160 L-34 L-51	WATER RESOURCES	WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES CRYOSPHERE CLIMATE	RUNOFF MONITORING/ASSESSMENT RUNOFF MONITORING/ASSESSMENT RUNOFF MONITORING/ASSESSMENT ANTECEDENT PRECIP INDEX DETERMINATION EVAPOTRANSPIRATION MODELING SNOW HYDROLOGY RADIATION AND THE GLOBAL ENERGY BALANCE	
WATER DENSITY	L-100	WATER RESOURCES	WATER RESOURCES	SNOWPACK PROPERTIES RESEARCH	
WATER DEPTH	L-167 L-167 L-167 L-167 L-167 L-160 L-167 L-113 L-200 L-160 L-100 L-0 L-0 L-101 L-167 L-81 L-167 L-100	LAND USE LAND USE WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES WATER RESOURCES	SOCIAL/POLITICAL/ECONOMIC MAPPING LAND USE MANAGEMENT CAPTOGRAPHY WATER SUPPLY INVENTORY MONITORING/ASSESSMENT LAKE CLASSIFICATION RESEARCH LAKE CLASSIFICATION RESEARCH DAMS AND RESERVOIRS SURVEY DAMS AND RESERVOIRS SURVEY WETLANDS MAPPING AND INVENTORY PLAYA LAKE INVENTORY PLAYA LAKE INVENTORY RUNOFF MONITORING/ASSESSMENT RUNOFF MONITORING/ASSESSMENT CONSUMPTIVE USE STUDIES RECREATIONAL USE STUDIES WATERSHED MANAGEMENT WATERSHED MANAGEMENT WATER RIGHTS EVAL FOR CHOP RESOURCES MGT WATER SUPPLY FORECASTS TRANSPORTATION/NAVIGATION FLOOD WATER MONITORING		

Table 4.4.1 Commonality of Parameters by Application (cont.)

COMMONALITY DATA BASE



SELECTION 4.			
PARAMETER	DISCIPLINE TITLE	REFER	APPLICATION TITLE
WIND SPEED	SEVERE STORMS	L-28	ANTECEDENT CONDITION DETERMINATIONS
WIND SPEED	SEVERE STORMS	L-28	ANTECEDENT CONDITION DETERMINATIONS
WIND SPEED	SEVERE STORMS	L-28	LOCAL STORM FORCE DETECTION
WIND SPEED	SEVERE STORMS	L-1	LOCAL STORM INTENSITY MEASUREMENT
WIND SPEED	SEVERE STORMS	L-1	LOCAL STORM FORCE DETECTION
WIND SPEED	SEVERE STORMS	L-1	ASSESS OF SEVERE STORM STRUCTURE
WIND SPEED	SEVERE STORMS	L-1	DETERMINATION OF SEVERE STORM INDICES
WIND SPEED	SEVERE STORMS	L-1	STORM/ENVIRONMENT INTERACTION ASSESSMENT
WIND SPEED	GLOBAL WEATHER	L-34	AIRCRAFT ROUTING
WIND SPEED	CLIMATE	L-34	CONSTRUCTION
WIND SPEED	GEODYNAMICS	G-6	DESERT AREA STUDIES
WIND STRESS	OCEAN PROCESSES	L-11	OCEAN INTERACTIONS
WIND STRESS	GLOBAL WEATHER	L-29	GENERAL OCEAN CIRCULATION
WIND STRESS	GLOBAL WEATHER	L-66	OCEAN TROPICAL REGIONS
WIND STRESS	GLOBAL WEATHER	L-11	OCEAN ATMOSPHERIC INTERACTION
WIND STRESS	GEODYNAMICS	G-6	DESERT AREA STUDIES
X-RAY ENERGY DISTRIB	GLOBAL WEATHER	L-169	UPPER ATMOSPHERIC RESEARCH
ZOOPLANKTON	WATER RESOURCES	L-100	DAMS AND RESERVOIRS SURVEY
ZOOPLANKTON	WATER RESOURCES	L-160	DAMS AND RESERVOIRS SURVEY
ZOOPLANKTON	WATER RESOURCES	L-167	POLLUTANT WATER
ZOOPLANKTON EXTENT	WATER QUALITY	L-0	MONITORING CONDITIONS OF LAKES
ZOOPLANKTON EXTENT	WATER QUALITY	L-167	POLLUTION MONITORING
ZOOPLANKTON EXTENT	WATER QUALITY	L-167	POLLUTION MONITORING
ZOOPLANKTON EXTENT	OCEAN PROCESSES	L-160	LIVING MARINE RESOURCES
ZOOPLANKTON EXTENT	OCEAN PROCESSES	L-160	OCEAN CONTAMINATION
ZOOPLANKTON LEVEL	WATER QUALITY	L-2	POLLUTION CONTROL
ZOOPLANKTON LEVEL	WATER QUALITY	L-160	POLLUTION CONTROL
ZOOPLANKTON LEVEL	WATER QUALITY	L-102	POLLUTANT EFFECTS ON BIOPROCESSES
ZOOPLANKTON LEVEL	WATER QUALITY	L-167	POLLUTANT EFFECTS ON BIOPROCESSES
ZOOPLANKTON LEVEL	COASTAL ZONE	Z-1	COASTAL RESOURCES STUDIES
ZOOPLANKTON LEVEL	COASTAL ZONE	L-2	COASTAL RESOURCES STUDIES
ZOOPLANKTON TYPE	WATER QUALITY	L-2	POLLUTION CONTROL
ZOOPLANKTON TYPE	WATER QUALITY	L-160	POLLUTION CONTROL
ZOOPLANKTON TYPE	WATER QUALITY	L-102	POLLUTANT EFFECTS ON BIOPROCESSES
ZOOPLANKTON TYPE	WATER QUALITY	L-167	POLLUTANT EFFECTS ON BIOPROCESSES
ZOOPLANKTON TYPE	OCEAN PROCESSES	L-160	LIVING MARINE RESOURCES
ZOOPLANKTON TYPE	OCEAN PROCESSES	L-160	OCEAN CONTAMINATION
	COASTAL ZONE		COASTAL RESOURCES STUDIES

Table 4.4.1 Commonality of Parameters by Application (cont.)



SECTION 5. COMMONALITY DATA BASE



SECTION 5. COMMONALITY DATABASE

5.1 DESCRIPTION OF THE DATABASE

During Phase I of this study it became apparent that some type of computerized data management system would be required to handle the large amount of data being collected. At the present time there are nearly 7000 parameter records in the data base and each of the records may have as many as 18 data items. In order to utilize this data there must be convenient method of sorting, selecting, and arranging this data in response to various queries.

It was determined that the data base should have the following attributes:

- o Direct and rapid access;
- o Changeable and flexible file structure to accomodate changes
- o Real-time accessibility
- o Generalized search capability; the user able to input series of statements in a data base interrogation language, specifying a set of logical search conditions to output only information he requires.
- o Standard search capability; a user able to input a standard code to select a predefined set of logical conditions which then implements the data base search.
- o Minimized or no redundancy; updating of one portion does not require updating elsewhere.
- o Ease of updating; addition of new data does not require a rebuild of the data base.

After the review of several data management systems, DRS (Data Retrieval System), developed by A.R.A.P. (Aeronautical Research Associates of



Princeton, Inc.), was selected for use in building the Commonality Database. DRS is an interactive retrieval system which combines the utilization of sophisticated software with ease of operation for the user.

DRS is a highly user-oriented system that requires no formal knowledge of computer programming, yet the command structure is versatile enough to allow technical people to manipulate the more sophisticated features of the system. There are many such features that lend themselves to the support of generalized data base management environments. The system offers the user more than 80 English-like commands, of which only four (SELECT, ARRANGE, LIST, and EXECUTE) are really needed by individuals desiring to use the system for straightforward retrieval and report writing. For the more advanced programmer, DRS contains full host-language capabilities for applications requiring them. One of the key features of DRS is its ability to handle textual data along with computational and logical operations.

DRS is designed to handle large data bases (on the order of 10^9 bytes of information). Thus the pilot Commonality Database can be expanded to include additional applications and parameters. Also, other data types, such as sensor data, can be added. DRS can support a 16-level hierarchical structure and inverted indices. It is highly modular in design, with the Command Processor as the principal element of the system. This module is responsible for reading the commands input from a disk file, a console typewriter, or a remote terminal. It scans all commands for errors, translates the command string into a Polish-form notation, decides whether the command is to be executed immediately or held for later execution, and finally transfers control to the appropriate module for execution.

There are six basic elements that go to make up the operations of DRS: an initialization plus login/logout section; a function section (i.e., the commands which most users would be expected to use); a utility section to allow users to control input/output devices, etc.; a data base creation, modification, and updating section; a data base definition section; and a linkage section for invoking external modules, either developed by A.R.A.P. (e.g., the utility LINK module option) or in-house.

Flexibility and ease of use are the design criteria achieved by DRS. Minimal card preparation and/or typing are needed to perform any of the



four basic functions of the system. There are four commands which allow the user to retrieve data rapidly and accurately. The SELECT command is used to select from a data base a subset of data based on a logical analysis of information requirements which the user has provided and which the subset must satisfy. With the ARRANGE command, the user can organize the selected subset to order the values present in one or more categories of the subset. The LIST command provides for outputting all or parts of the selected and arranged subset; this listing function can be directed to the interactive console or to various other sequential devices. Finally, the EXECUTE command is used to generate reports.

For the more technical user, DRS offers many additional commands. New data fields can be defined in terms of an arithmetic or logical expression involving currently stored fields. A count of the number of records which have the same values in a specified field can be obtained. Headings can be added and changed interactively, as well as prestored. Output formats can be easily switched, and the system permits the input, modification, and deletion of data either interactively or in batch mode from other sequential or direct-access devices. A wide range of error-checking logic is available, along with security features for limiting the access and retrieval of sensitive data to authorized personnel.

The next section discusses some of current capabilities of the Commonality Database and provides sample printouts.

5.2 COMMONALITY DATABASE CAPABILITIES

The current database contains all of the data that has been collected during this study. The following capabilities are presently available.

5.2.1 DATA SHEETS

The database can printout any or all data sheets. Printouts of the data sheets are contained in the first thirteen sections of Volume II. A data sheet contains a header including discipline, application, subapplication and tree number and a listing of the parameters and their characteristics. Each parameter is accompanied by a reference code that indicates where the information came from. Other information than can be included on the data

DISCIPLINE TITLE - GEODYNAMICS	APPLICATION TITLE - GEOLGICAL MAPPING	PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALTERATION FEATURES			0-17				5 0	100 0	M				MON
COLOR, TONAL PATTERNS			0-1				100 0	100 0	M				MON
COLOR, TONAL PATTERNS			0-17				5 0	100 0	M				MON
COLOR, TONAL PATTERNS			0-14	95.		%	10 0	100 0	M				MON
COLOR, TONAL PATTERNS			0-9				10 0	100 0	M				MON
DRAINAGE PATTERNS			0-1				100 0	100 0	M				MON
DRAINAGE PATTERNS			0-2	95	1.5	% KM	30 0	100 0	M				MON
DRAINAGE PATTERNS			0-8				100 0	100 0	M				MON
DRAINAGE PATTERNS			0-17				5 0	100 0	M				MON
EROSION TYPE			0-8				100 0	100 0	M				MON
FAULTS, FRACTURES			0-1				100 0	100 0	M				MON
FAULTS, FRACTURES			0-2	95.	1.5	% KM	30 0	100 0	M				MON
FAULTS, FRACTURES			0-8		85.	%	100 0	100 0	M				MON
FAULTS, FRACTURES			0-14			%	10 0	100 0	M				MON
FAULTS, FRACTURES			0-9	95.		%	10 0	100 0	M				MON
LAND COVER TYPE			0-2				30 0	100 0	M				MON
LAND COVER TYPE			0-17				5 0	100 0	M				MON
LINEAMENTS			0-1				100 0	100 0	M				MON
LINEAMENTS			0-1				100 0	100 0	M				MON
LINEAMENTS			0-8		1.5	KM	100 0	100 0	M				MON
LINEAMENTS			0-17				5 0	100 0	M				MON
LINEAMENTS			0-14	85		%	10 0	100 0	M				MON
LINEAMENTS			0-2	95		%	30 0	100 0	M				MON
LINEAMENTS			0-9				10 0	100 0	M				MON
ROCK TYPE			0-1				100 0	100 0	M				MON
ROCK TYPE			0-2	95		%	5 0	100 0	M				MON
ROCK TYPE			0-17			%	10 0	100 0	M				MON
ROCK TYPE			0-14	90.		%	10 0	100 0	M				MON
ROCK TYPE			0-9			%	10 0	100 0	M				MON
SLOPE, RELIEF			0-1				100 0	100 0	M				MON
SOIL TYPE			0-2	95.		%	30 0	100 0	M				MON
STRATA ATTITUDE			0-17				5 0	100 0	M				MON
STRUCTURAL FEATURES			0-9				10 0	100 0	M				MON
STRUCTURAL FEATURES			0-1				100 0	100 0	M				MON
STRUCTURAL FEATURES			0-2	95.	1.5	% KM	30 0	100 0	M				MON
STRUCTURAL FEATURES			0-8			%	100 0	100 0	M				MON
STRUCTURAL FEATURES			0-17			%	5 0	100 0	M				MON
STRUCTURAL FEATURES			0-14	90.		%	10 0	100 0	M				MON
STRUCTURAL FEATURES			0-9			%	10 0	100 0	M				MON
TERRAIN TYPE			0-1				100 0	100 0	M				MON
TERRAIN TYPE			0-2	95.		%	30 0	100 0	M				MON
TERRAIN TYPE			0-9			%	10 0	100 0	M				MON
TOPOGRAPHIC FEATURES			0-1				100 0	100 0	M				MON
TOPOGRAPHIC FEATURES			0-8		1.5	KM	100 0	100 0	M				MON
TOPOGRAPHIC FEATURES			0-17			%	5 0	100 0	M				MON
TOPOGRAPHIC FEATURES			0-14	95		%	10 0	100 0	M				MON
TOPOGRAPHIC FEATURES			0-9			%	10 0	100 0	M				MON
VEGETATIVE COVER TYPE			0-17				5 0	100 0	M				MON

Table 5.2.1. Sample Data Sheet



NUMBER	AUTHOR	TITLE
L-004	EWING, GIFFORD, ED	OCEANOGRAPHY FROM SPACE, WOODS HOLE OCEANOGRAPHIC INSTITUTION, APRIL 1965
L-005	FALLER, KENNETH, NASA #1012	REMOTE SENSING OF OCEANIC PARAMETERS DU SKYLAB/ GAMEFISH EXPERIMENT NOV 1977
L-006		SOIL MOISTURE WORKSHOP, NASA CONFERENCE PUBLICATION 2073, JANUARY 17-19, 1978
L-007	KREINS, EARL R , ED , NASA PUBLIC 2076	4TH NASA AND NOAA WEATHER AND AND CLIMATE PROGRAM SCIENCE REVIEW JANUARY 24-25, 1979
L-008		REPORT OF THE FEDERAL MAPPING TASK FORCE ON MAPPING, CHARTING, GEODESY AND SURVEYING, EXECUTIVE OFFICE OF THE PRESIDENT-OFFICE OF MANAGEMENT AND BUDGET, JULY, 1973
L-009		ICE AND CLIMATE EXPERIMENT-REPORT OF THE SCIENCE AND APPLICATIONS WORKING GROUP, NASA-GSFC, OCTOBER 4, 1979
L-010	HENDERSON, FB, III AND A. SWANN, ED	REPORT OF THE AD HOC GEOLOGICAL COMMITTEE ON REMOTE SENSING FROM SPACE WITH RECOMMENDATIONS FOR A GEOSAT PROGRAM, FLAGSTAFF, ARIZONA MAY 1976
L-011	NASA	PROPOSED NASA CONTRIBUTION TO THE CLIMATE PROGRAM, JULY 1977

Table 5.2.2. Sample Printout of Bibliography



COMMONALITY DATA BASE			
SELECTION		DI='GEODYNAMICS',	
TREE	APPLICATION TITLE	SUBAPPLICATION TITLE	
11 1 1	GEOLOGICAL MAPPING	NO TITLE	
11 1 1	LANDFORM MAPPING	NO TITLE	
11 1 1	ALTERATION FEATURE MAPPING	NO TITLE	
11 1 1	FAULT, FRACTURE MAPPING	NO TITLE	
11 1 1	LINEAMENT MAPPING	NO TITLE	
11 1 1	GEO THERMAL MAPPING	NO TITLE	
11 1 1	ROCK TYPE MAPPING	NO TITLE	
11 1 1	EARTHQUAKE RISK ASSESSMENT	NO TITLE	
11 1 1	VOLCANIC ERUPTION RISK ASSESSMENT	NO TITLE	
11 1 1	GEODETIC MEASUREMENT OF PLATE MOVEMENT	NO TITLE	
11 1 1	REGIONAL STUDIES	NO TITLE	
11 1 1	ARCTIC AREA STUDIES	NO TITLE	
11 1 1	DESERT AREA STUDIES	NO TITLE	
11 1 1	GRAVITY FIELD MODELING	NO TITLE	
11 1 1	MAGNETIC FIELD MODELING	NO TITLE	
11 1 1	TECTONIC FIELD STUDIES	NO TITLE	
11 1 1	REGIONAL CRUSTAL DEFORMATION MODELING	NO TITLE	
11 1 1	STRESS/STRAIN MODELING	NO TITLE	
11 1 1	SOLID EARTH TIDAL STUDIES	NO TITLE	
11 1 1	EARTH ROTATION/POLAR MOTION STUDIES	NO TITLE	
11 1 1		ENVIRONMENTAL IMPACT ON ARCTIC TUNDRA	
11 1 1		SAND SEAS-DESERT DYNAMICS	

Table 5.2.3 Geodynamics' Applications and Tree Numbers



Table 5.2.4. Parameters used by Agriculture, Forestry and Rangeland Discipline

COMMONALITY DATA BASE

SELECTION: DI='AGRICULTURE';

PARAMETER	PARAMETER
ABIOTIC STRESS	SOIL GRANULARITY
ABIOTIC STRESS EXTENT	SOIL MOISTURE
AIR TEMP	SOIL ORGANIC CONTENT
ASPECT	SOIL PERMEABILITY
BIOMASS	SOIL POROSITY
CHEMICAL PESTICIDE CONCEN	SOIL PROPERTIES
CHEMICAL PESTICIDE EXTENT	SOIL TEXTURE
CHEMICAL PESTICIDE TYPE	SOIL TYPE
CHLOROPHYLL	SOIL/ROCK COMPOSITION
COLOR, TONAL PATTERNS	SURFACE AIR TEMP
CULTIVATION EXTENT	SURFACE ROUGHNESS
CULTIVATION INTENSITY	TERRAIN TYPE
CULTIVATION METHOD	TERRIAN TYPE
DRAINAGE PATTERNS	TERTIAN TYPE
EROSION LEVEL	THERMAL PROPERTIES
INFESTATION EXTENT	TOPSOIL DEPTH
LAND ALBEDO	TREE CROWN DENSITY
LAND COVER TYPE	VEGETATIVE CONDITION
LAND SURFACE TEMP	VEGETATIVE COVER TYPE
LEAF AREA INDEX	VEGETATIVE DAMAGE EXTENT
LEAF CANOPY TEMP	VEGETATIVE DAMAGE TYPE
LEAF CANOPY TEMP	VEGETATIVE EXTENT
LEAF MOISTURE CONTENT	VEGETATIVE PATTERNS
LEAF REFLECTIVITY	VEGETATIVE TYPE
NON-SOIL RESIDUALS	VERT LAND TEMP PROF
ORGANIC MATERIALS	VERT TEMP PROF
PLANT AREAL EXTENT	VERT WIND CONVECT DUCTS LOC
PLANT CONDITION	VERT WIND CONVECT DUCTS SIZE
PLANT CONDITON	VERT WIND PROF AMP
PLANT DENSITY	VERT WIND PROF DIR
PLANT DENSTIY	WATER EXTENT
PLANT DISEASE EXTENT	WATER LOCATION
PLANT DISEASE TYPE	WETLAND EXTENT
PLANT GROWTH RATE	
PLANT GROWTH STAGE	
PLANT INFESTATION EXTENT	
PLANT TYPE	
PRECIP AMOUNT	
PRECIP EXTENT	
PRECIP RATE	
PRECIP TYPE	
PRECIP WATER PROF	
RADIATION BUDGET	
RELATIVE HUMIDITY	
ROCK TYPE	
SALINITY	
SLOPE, RELEIF	
SLOPE, RELIEF	
SOIL CHEMISTRY	
SOIL CHEMSITY	
SOIL CONDITION	
SOIL CONSTITUENTS	
SOIL GRANULARITY	



Table 5.2.5. Parameters used by Water Resources Discipline

COMMONALITY DATA BASE

SELECTION: DI='WATER RESOURCES',

PARAMETER	PARAMETER
ABIOTIC STRESS	ICE/SNOW MELT
AIR TEMP	INFESTIOUS AGENTS
ALGAE CONCEN	IRON
ALGAE TYPE	LAND ALBEDO
ANTECEDENT PRECIP INDEX	LAND COVER TYPE
ASTRONOMICAL/STORM TIDES	LAND SURFACE TEMP
ATMOSPHERIC MIXING RATE	LATENT HEAT
ATMOSPHERIC TRANSMITTANCE	LEAF REFLECTIVITY
BRIGHTNESS TEMP	MACROPHYTE DENSITY
CHEMICAL PESTICIDE CONCEN	MACROPHYTE TYPE
CHEMICAL PESTICIDE EXTENT	MANGANESE
CHEMICAL PESTICIDE TYPE	METAL TYPE
CHEMICAL POLLUTANT TYPE	MINERAL LOCATION
CHLOROPHYLL	MINERAL SUBSTANCES
CLOUD COVER	NET RADIATION
CLOUD LEVEL	NITROGEN
CLOUD PARTICLE SIZE DISTRIB	NON-SOIL RESIDUALS
CLOUD TYPE	OCEAN SURFACE CURRENT AMP
COASTAL/ESTUARY CIR AMP	OCEAN SURFACE CURRENT DIR
COASTAL/ESTUARY CIR LOC	OCEAN SURFACE CURRENT LOC
COLOR, TONAL PATTERNS	OCEAN SURFACE PRESSURE
CONDUCTIVITY	OCEAN SURFACE ROUGHNESS
CONVECTION	OCEAN SURFACE WIND SPEED
CURRENT BOUNDARY	OCEAN TEMP PROF
CURRENT VELOCITY	OCEAN WAVE HEIGHT
DAM LOCATION	OCEAN WAVE LENGTH AMP
DAM WATER LEVEL	ORGANIC CARBON IN WATER
DEW POINT TEMP	ORGANIC MATERIALS
DISSOLVED GASSES	OXYGEN
DISSOLVED NUTRIENTS	PESTICIDE POLLUTANT TYPE
DISSOLVED OXYGEN	PETROLEUM POLLUTANT EXTENT
DRAINAGE PATTERNS	PETROLEUM POLLUTANT THICKNESS
DROUGHT INDEX	PETROLEUM POLLUTANT TYPE
EMISSIVITY	PETROLEUM POLLUTANT EXTENT
EROSION RATE	PH-BALANCE
EROSION TYPE	PHOSPHORUS
EVAPORATION RATE	PHYTOPLANKTON LEVEL
EVAPOTRANSPIRATION	PHYTOPLANKTON TYPE
FLOOD EXTENT	PLANT AREAL EXTENT
FROZEN GROUND EXTENT	PLANT DENSITY
GALACTIC RADIATION	PLANT GROWTH STAGE
GROUND WATER LOCATION	PLANT INFESTATION EXTENT
HEAT TRANSPORT	PLANT TYPE
ICE AGE	PLANT-WATER STRESS
ICE DRIFT RATE	POLLUTANT CONCEN
ICE EXTENT	POLLUTANT TYPE
ICE FLOE LOCATION	POPULATION DENSITY
ICE FREEZING RATES	PRECIP AMOUNT
ICE LEAD ORIENTATION	PRECIP DURATION
ICE THICKNESS	PRECIP EXTENT
ICE/SNOW ALBEDO	PRECIP RATE
ICE/SNOW EXTENT	PRECIP WATER PROF
ICE/SNOW MELT	PRECIP WATER VAPOR



Table 5.2.5. Parameters used by Water Resources Discipline (cont.)

COMMUNALITY DATA BASE

SELECTION. DI='WATER RESOURCES';

PARAMETER	PARAMETER
RADIOACTIVE WASTE EXTENT	WATER ALBEDO
RADIOACTIVE WASTE TYPE	WATER BOTTOM PROF
RELATIVE HUMIDITY	WATER CLARITY
ROCK ALTERATION	WATER CONTENT
ROCK FORMATION	WATER DENSITY
ROCK TYPE	WATER DEPTH
RUNOFF RATE	WATER EXTENT
RUNOFF VOLUME	WATER FLOW RATE
SALINITY	WATER LEVEL
SATURATION OF VADOSE ZONE	WATER QUALITY
SEA SURFACE TEMP	WATER TABLE DEPTH
SEDIMENT	WATER TALBE DEPTH
SEDIMENTATION RATE	WET BIOMASS
SEVERE STORM LOC	WETLAND EXTENT
SEWAGE WASTES	ZOOPLANKTON
SKIN DEPTH	
SLOPE, RELEIF	
SNOW COVER	
SNOW DENSITY	
SNOW DEPTH	
SNOW/WATER EQUIVALENT	
SOIL DENSITY	
SOIL MOISTURE	
SOIL PERMEABILITY	
SOIL POROSITY	
SOIL TEMP	
SOIL TEMP PROF	
SOIL TEXTURE	
SOIL TYPE	
SOLAR CONSTANT	
SOLAR FLUX	
STORM INTENSITY	
STRUCTURAL ANAMOLIES	
SUBSURFACE SOIL MOISTURE	
SULFUR	
SURFACE AIR TEMP	
SURFACE ROUGHNESS	
SURFACE WATER TEMP	
SURFACE WIND SPEED	
THERMAL PROPERTIES	
TIDAL RANGE	
TOPOGRAPHIC FEATURES	
TOPSOIL EXTENT	
TURBIDITY	
VEGETATIVE CONDITION	
VEGETATIVE COVER TYPE	
VEGETATIVE EXTENT	
VEGETATIVE MOISTURE	
VEGETATIVE PATTERNS	
VEGETATIVE TYPE	
VERT HUMIDITY PROF	
VERT TEMP PROF	
WATER ALBEDO	



Table 5.2.6. Parameters used by Water Quality Discipline

COMMONALITY DATA BASE

SELECTION: DI='WATER QUALITY';

PARAMETER	PARAMETER
ALGAE CONCEN	PETROLEUM POLLUTANT THICKNESS
ALGAE EXTENT	PH-BALANCE
ASTRONOMICAL/STORM TIDES	PHOSPHORUS
CAROTENOIDS	PHYTOPLANKTON EXTENT
CHEMICAL PESTICIDE CONCEN	PHYTOPLANKTON LEVEL
CHLORIDES	PHYTOPLANKTON TYPE
CHLOROPHYLL	POINT SOURCE POSITION
CLOUD COVER	POLLUTANT CONCEN
COASTAL/ESTUARY CIR AMP	POLLUTANT DISPERSION
COASTAL/ESTUARY CIR DIR	POLLUTANT LOCATION
COASTAL/ESTUARY CIR LOC	POLLUTANT TYPE
CONDUCTIVITY	RADIOACTIVE WASTE EXTENT
CURRENT BOUNDARY	RADIOACTIVE WASTE STRENGTH
CURRENT DIRECTION	RADIOACTIVE WASTE TYPE
CURRENT VELOCITY	RADIOACTIVE NUCLIDES EXTENT
DIFFUSION RATE	ROCK TYPE
DISSOLVED GASSES	SALINITY
DISSOLVED NUTRIENTS	SATURATION OF VADOSE ZONE
DISSOLVED NUTRIENTS	SEA SURFACE TEMP
DISSOLVED OXYGEN	SEDIMENT
DRAINAGE PATTERNS	SEDIMENT TRANSPORT DIR
EMISSION	SEDIMENTATION RATE
EVAPORATION RATE	SEWAGE WASTES
FISH IDENTIFICATION	SHIP SIZE
FISH OIL/BIPRODUCT EXTENT	SOIL MOISTURE
FISH OIL/BIPRODUCT THICKNESS	SOIL/ROCK COMPOSITION
FISH SIZE	SOLAR FLUX
IRON	SURFACE WATER TEMP
IRRIGATION EXTENT	SURFACE WIND DIR
LAND COVER TYPE	SURFACE WIND SPEED
MACROPHYTE DENSITY	SUSPENDED PARTICLE CONCEN
MACROPHYTE TYPE	TOPOGRAPHIC FEATURES
MANGANESE	TOPSOIL TRANSPORT
METAL CONCEN	TURBIDITY
METAL TYPE	UPWELLING LOCATION
NATURAL POLLUTANTS	VEGETATIVE PATTERNS
NITROGEN	VERT WATER TEMP PROF
NON-SOIL RESIDUALS	VERT WIND PROF
OCEAN SURFACE CURRENT AMP	WATER ALBEDO
OCEAN SURFACE CURRENT DIR	WATER CLARITY
OCEAN SURFACE CURRENT LOC	WATER DEPTH
OCEAN SURFACE PRESSURE	WATER EXTENT
OCEAN SURFACE VELOCITY PROF	WATER FLOW RATE
OCEAN SURFACE WIND SPEED	WATER TEMP
OCEAN WAVE HEIGHT	WATER TEMP PROF
OCEAN WAVE LENGTH AMP	WET BIOMASS
OCEAN WAVE LENGTH DIR	WETLAND EXTENT
OIL DENSITY	ZOOPLANKTON EXTENT
OIL DISTRIBUTION	ZOOPLANKTON LEVEL
OIL THICKNESS	ZOOPLANKTON TYPE
ORGANIC CARBON IN WATER	
ORGANIC MATERIALS	
PARTICULATES	
PESTICIDE POLLUTANT EXTENT	
PESTICIDE POLLUTANT TYPE	
PETROLEUM POLLUTANT EXTENT	



Table 5.2.7. Parameters used by Coastal Zone Discipline

COMMONALITY DATA BASE

SELECTION. DI='COASTAL ZONE';

PARAMETER	PARAMETER
BIOMASS	STRUCTURAL FEATURES
CHLOROPHYLL	SURFACE AIR TEMP
COASTAL CURRENTS	SURFACE CURRENT PATTERN
COLOR, TONAL PATTERNS	SURFACE TEMP PROF
CURRENT LOCATION	SURFACE WIND SPEED
CURRENT VELOCITY	SUSPENDED SEDIMENT CONCEN
DRAINAGE PATTERNS	SUSPENDED SEDIMENT LOAD
DRY BIOMASS	TERRAIN TYPE
EROSION RATE	TIDAL EFFECTS
FLOOD EXTENT	TIDAL PERIOD
GRAVITY FIELD STRENGTH	TIDAL PROPERTIES
ICE FLOE DIR	TIDAL RANGE
ICE FLOE SIZE	TOPOGRAPHIC FEATURES
ICE/SNOW ALBEDO	TURBIDITY
LAND COVER TYPE	VEGETATIVE COVER TYPE
LAND COVER TYPE	VEGETATIVE PATTERNS
LEAF AREA INDEX	VEGETATIVE TYPE
LINEAMENTS	VERT WIND SHEAR
NUTRIENTS CONCENT	WATER ALBEDO
OCEAN CURRENT BOUNDARY	WATER DEPTH
OCEAN CURRENT DIRECTION	WATER DEPTH PROF
OCEAN SUBSURFACE TEMP	WATER LOCATION
OCEAN SURFACE CURRENT AMP	WATER MASS BOUNDARIES
OCEAN SURFACE CURRENT DIR	WATER TEMP
OCEAN SURFACE ROUGHNESS	WATER TEMP PROF
OCEAN SURFACE TEMP	WET BIOMASS
OCEAN SURFACE VELOCITY PROF	WETLAND EXTENT
OCEAN TEMP PROF	WETLAND TYPE
OCEAN WAVE	ZOOPLANKTON LEVEL
OCEAN WAVE DIR	
OCEAN WAVE FORCE	
OCEAN WAVE FORCE	
OCEAN WAVE HEIGHT	
OCEAN WAVE LENGTH	
OCEAN WAVE LENGTH AMP	
OCEAN WAVE LENGTH DIR	
PARTICULATES	
PHYTOPLANKTON LEVEL	
PLANT DENSITY	
PLANT TYPE	
POLLUTANT TYPE	
RUNOFF RATE	
RUNOFF VOLUME	
SALINITY	
SEA SURF REFLECTIVITY	
SEA SURFACE TEMP	
SEDIMENT	
SEDIMENT LOAD	
SEISMICITY	
SHIP LOCATION	
SLOPE, RELIEF	
SLOPE, RELIEF	
STANDING WATER LOCATION	



Table 5.2.8. Parameters used by Cryosphere Discipline

COMMONALITY DATA BASE

SELECTION: DI='CRYOSPHERE',

PARAMETER	PARAMETER
AIR TEMP	PRECIP RATE
BOTTOM CONDITIONS	PRECIP TYPE
CLOUD COVER	RIDGING DENSITY
CLOUD TOP TEMP	RIDGING HEIGHT
CLOUD/ATMOS ALBEDO	RIDGING ORIENTATION
CONDUCTIVE HEAT FLUX	SALINITY
CURRENT LOCATION	SEA ICE THICKNESS
EVAPORATION RATE	SEA SURFACE TEMP
FREE WATER CONTENT	SENSIBLE HEAT FLUX
HEAT TRANSPORT	SHIP DENSITY
HORIZONTAL WIND	SHIP LOCATION
ICE ACCUMULATION RATE	SNOW COVER
ICE AGE	SNOW DENSITY
ICE BOTTOM SURFACE ROUGHNESS	SNOW DEPTH
ICE BOUNDARY	SNOW SURFACE TEMP
ICE CONCEN	SNOW/WATER CONTENT
ICE DEFORMATION RATE	SNOW/WATER EQUIVALENT
ICE DRIFT RATE	SOIL MOISTURE
ICE EXTENT	SPECIES IDENTIFICATION
ICE FLDE LOCATION	STRAIN RATES
ICE INTERNAL PROPERTIES	SURFAC WIND SPEED
ICE LEAD FRACTIONAL AREA	SURFACE PRESSURE
ICE LEAD LOCATION/SIZING	SURFACE TEMP
ICE LEAD ORIENTATION	SURFACE WIND SPEED
ICE MOVEMENT	VERT HUMIDITY PROF
ICE SHEET BOUNDARY	VISIBILITY
ICE SHEET THICKNESS	WATER CONTENT
ICE STRAIN RATE	WATER EQUIVALENT
ICE SURFACE ELEVATION	
ICE SURFACE ELEVATION CHANGE	
ICE SURFACE ROUGHNESS	
ICE SURFACE TEMP	
ICE THICKNESS	
ICE TYPE	
ICE/SNOW ALBEDO	
ICE/SNOW EXTENT	
ICE/SNOW MELT	
ICE/SNOW SURFACE TEMP	
ICE/SNOW THICKNESS	
ICEBERG LOCATION	
ICEBERG VOLUME DISCHARGE	
LATENT HEAT	
OCEAN CURRENT	
OCEAN SURFACE CURRENT AMP	
OCEAN SURFACE CURRENT DIR	
OCEAN SURFACE WIND DIR	
OCEAN SURFACE WIND SPEED	
OIL PLATFORM LOCATION	
POLAR POSITION	
POLLUTANT CONCEN	
POLLUTANT TYPE	
PRECIP AMOUNT	
PRECIP EXTENT	



Table 5.2.9. Parameters used by Air Quality Discipline

COMMONALITY DATA BASE

SELECTION. DI='AIR QUALITY';

PARAMETER	PARAMETER
AEROSOL PHYSICAL SIZE	NATURAL POLLUTANTS
AEROSOLS	NET RADIATION
AIR INSTABILITY	NH03
AIR QUALITY INDEX	NH3
AIR TEMP	NI
AL	NITRATES
ANTHROPOGENIC POLLUTANTS	NITROGEN
AR	NO
ATMOSPHERIC DUST CONTENT	NOX
ATMOSPHERIC MIXING RATE	NO2
ATMOSPHERIC PARTICULATES	N2O
ATMOSPHERIC TRANSMITTANCE	N2O5
AUTOMOBILE DENSITY	O-
CA	OCEAN MERIDIONAL HEAT FLUX
CFMS CONCEN	OCEAN MIXING LAYER
CFXCLY	OCEAN SURFACE ROUGHNESS
CH2CL2	OCEAN SURFACE WIND DIR
CH4	OCEAN SURFACE WIND SPEED
CL	OCEANIC MERIDIONAL HEAT FLUX
CL0	OH
CLONO2	OH-
CLOUD COVER	ORGANICS
CLOUD THICKNESS	OZONE
CLOUD TOP TEMP	OZONE DISTRIB
CLOUD/ATMOS ALBEDO	OZONE PROF
CL2	PARTICULATES
CO	PB
CONVECTION	PHYTOPLANKTON LEVEL
CO2	PLANT DENSITY
CXHY	PLANT TYPE
CXHYCL2	POINT SOURCE POSITION
C2H2	POLLUTANT CONCEN
DEBRIS TRACKING	POLLUTANT TYPE
EMISSION	R
EQ-TO-POLE TEMP GRAD	RELATIVE HUMIDITY
EVAPORATION RATE	SENSIBLE HEAT FLUX
FE	SOIL PERMEABILITY
H	SOLAR CONSTANT
HCL	SOLAR FLUX
HE	SO2
HF	STRATOPAUSE
HG	SULFATES
HN03	SULFUR
HOCL	SULFUR COMPOUNDS
H02	SULFUR OXIDES
HYDROCARBONS	SURFACE ROUGHNESS
H2O	SURFACE TEMP
H2O CONTENT	TERRAIN TYPE
H2O2	THERMOCLINE DEPTH
H2S	TOPOGRAPHIC FEATURES
ICE/SNOW ALBEDO	TOTAL OZONE
ICE/SNOW EXTENT	TRI-ATOMIC GASES
INFRARED RADIATION	TROPOPAUSE
LAND ALBEDO	VERT HUMIDITY PROF
LAND COVER TYPE	VERT PRESSURE PROF
LAPSE RATE	VERT TEMP PROF
LATENT HEAT	VERT VELOCITY
LI	VERT WIND CONVECT DUCTS LOC
LONGWAVE RADIATION	VERT WIND CONVECT DUCTS SIZE
METAL CONCEN	VERT WIND PROF
MG	VISIBILITY
MGO	VORTICITY
MIXING CEILING	WATER ALBEDO
NA	WIND SPEED
NAO	



Table 5.2.10. Parameters used by Ocean Processes Discipline

COMMONALITY DATA BASE

SELECTION: DI='OCEAN PROCESSES';

PARAMETER	PARAMETER
AIR/SEA TEMP DIFF	OCEAN DISEASE VECTOR TYPE
ALGAE EXTENT	OCEAN SURFACE CURRENT
ALGAE TYPE	OCEAN SURFACE CURRENT AMP
ASTRONOMICAL/STORM TIDES	OCEAN SURFACE CURRENT DIR
BACTERICAL SEWAGE EXTENT	OCEAN SURFACE CURRENT LOC
BACTERICAL SEWAGE LOC	OCEAN SURFACE PRESSURE
CHEMICAL POLLUTANT CONCEN	OCEAN SURFACE ROUGHNESS
CHEMICAL POLLUTANT EXTENT	OCEAN SURFACE TEMP
CHEMICAL POLLUTANT TYPE	OCEAN SURFACE VELOCITY PROF
CHLOROPHYLL	OCEAN SURFACE WIND DIR
CLOUD COVER	OCEAN SURFACE WIND LOC
CLOUD LEVEL	OCEAN SURFACE WIND SPEED
CLOUD PARTICLE SIZE DISTRIB	OCEAN TEMP PROF
CLOUD TEMP	OCEAN WAVE AMP
CLOUD THICKNESS	OCEAN WAVE DIR
CLOUD TOP HEIGHT	OCEAN WAVE HEIGHT
COASTAL/ESTUARY CIR AMP	OCEAN WAVE LENGTH
COASTAL/ESTUARY CIR DIR	OCEAN WAVE LENGTH AMP
COASTAL/ESTUARY CIR LDC	OCEAN WAVE LENGTH DIR
COASTAL/ESTURAY CIR DIR	OCEAN WAVE PERIOD
COLOR, TONAL PATTERNS	OCEAN WAVE SPECTRA
CURRENT BOUNDARY	OCEAN WAVE SPEED
CURRENT LOCATION	PESTICIDE POLLUTANT EXTENT
CURRENT VELOCITY	PESTICIDE POLLUTANT TYPE
DISSOLVED NUTRIENTS	PETROLEUM POLLUTANT EXTENT
DISSOLVED NUTRIENTS	PETROLEUM POLLUTANT THICKNESS
DISSOLVED OXYGEN	PETROLEUM POLLUTANT TYPE
DRIFT CURRENT	PH-BALANCE
EDDY LOCATION	PHYTOPLANKTON EXTENT
EDDY TOPOGRAPHY	PHYTOPLANKTON TYPE
EVAPORATION RATE	PRECIP AMOUNT
FISH IDENTIFICATION	PRECIP EXTENT
FISH OIL/BIPRODUCT EXTENT	PRECIP RATE
FISH OIL/BIPRODUCT THICKNESS	PRECIP TYPE
FISH OIL/BIPRODUCT TYPE	PRECIP WATER
FISH SIZE	PRECIP WATER PROF
ICE AGE	RADIOACTIVE STRENGTH
ICE EXTENT	RADIOACTIVE WASTE EXTENT
ICE SALINITY	RADIOACTIVE WASTE STRENGTH
ICE SURFACE FEATURES	RADIOACTIVE WASTE TYPE
ICE THICKNESS	SALINITY
ICE TYPE	SEA ICE DRIFT RATE
ICE/SNOW EXTENT	SEA ICE EXTENT
ICE/SNOW FRACTION	SEA LEVEL HEIGHT
ICEBERG DEFORMATION RATE	SEA LEVEL PRESSURE
ICEBERG LOCATION	SEA STATE
ICEBERG SIZE	SEA SURFACE TEMP
MARINE GEOID	SEDIMENT TRANSPORT AMP
METAL CONCEB PROF	SEDIMENT TRANSPORT DIR
METAL CONCEN	SEDIMENT TRANSPORT EXTENT
METAL TYPE	SEDIMENT TRANSPORT LOC
OCEAN CURRENT	SEDIMENTATION RATE
OCEAN DISEASE VECTOR EXTENT	SEISMICITY



Table 5.2.10. Parameters used by Ocean Processes Discipline (cont.)

COMMONALITY DATA BASE

SELECTION: DI='OCEAN PROCESSES';

PARAMETER

SENSIBLE HEAT FLUX
SHIP LOCATION
SHIP SIZE
SHOAL/SHORELINE MOVEMENT
STORM INTENSITY
STORM LOCATION
SURFACE AIR TEMP
SURFACE WATER TEMP
SUSPENDED PARTICLE CONCEN
THERMOCLINE DEPTH
TOPOGRAPHIC FEATURES
TURBIDITY
UPPER OCEAN HEAT STORAGE
UPWELLING EXTENT
UPWELLING LOCATION
VECTOR FLOW FIELD
VEGETATIVE EXTENT
VEGETATIVE TYPE
VERT HUMIDITY PROF
VERT OCEAN TEMP PROF
VERT TEMP PROF
VERT WIND CONVECT DUCTS LOC
VERT WIND CONVECT DUCTS SIZE
VERT WIND PROF
VERT WIND PROF AMP
VERT WIND PROF DIR
VERT WIND SHEAR
VISIBILITY
WATER ALBEDO
WIND STRESS
ZOOPLANKTON EXTENT
ZOOPLANKTON TYPE



Table 5.2.11. Parameters used by Severe Storms Discipline

COMMONALITY DATA BASE

SELECTION: DI='SEVERE STORMS';

PARAMETER	PARAMETER
AIR INSTABILITY	LOWER TROP MOIST GRADIENT
AIR TEMP	MAX OVERSHOOTING HEIGHT
AIRCRAFT LOCATION	MAXIMUM WIND SPEED
AIRCRAFT ROUTE	MIXING RATIO PROF
ANVIL GROWTH	MOISTURE CONVERGENCE
AREA DETERMINATION	MOISTURE TONGUE
ASTRONOMICAL/STORM TIDES	OCEAN SURFACE PRESSURE
CLOUD COVER	OCEAN SURFACE TEMP
CLOUD COVER	OCEAN TEMP PROF
CLOUD GROWTH RATE	OCEAN WAVE HEIGHT
CLOUD H2O CONTENT	OVERSHOOTING CYCLE
CLOUD LATENT HEAT RELEASE	PEAK CURRENTS
CLOUD LEVEL	PLANT TYPE
CLOUD MOVEMENT	POPULATION DENSITY
CLOUD PARTICLE SIZE DISTRIB	PRECIP AMOUNT
CLOUD PHASE	PRECIP DURATION
CLOUD THICKNESS	PRECIP EXTENT
CLOUD TOP HEIGHT	PRECIP RATE
CLOUD TOP TEMP	PRECIP TYPE
CLOUD TYPE	PRECIP WATER PROF
CONVECTIVE INSTABILITY	PRECIP WATER VAPOR
DAMAGE LEVEL	RELATIVE HUMIDITY
DEW POINT TEMP	RELATIVE VORTICITY
DISASTER AREA LOCATION	RESCUE CENTER
DOWNBURST	RISE TIME
ELECTRIC FIELD DISTRIB	SEA LEVEL PRESSURE
ELECTRICITY DISTRIB	SEVERE STORM LOC
EVACUATION AREA	SHIP LOCATION
EVAPORATION RATE	SHIP ROUTE
EYE LOCATION	SHORTWAVE RADIATION
EYE PRESSURE	SOIL MOISTURE
FLASH DENSITY	SOIL TYPE
FLASH RATE	STORM DURATION
FLOOD AREA LOCATION	STORM EXTENT
FLOOD DURATION	STORM INTENSITY
FLOOD EXTENT	STORM LOCATION
FLOOD LEVEL	STORM PATH
GRAVITY WAVES	STORM TYPE
HORIZONTAL WIND	STROKE DURATION
ICE/SNOW EXTENT	STROKE RATE
INDUSTRY CENTER	STROKE TYPE
INITIAL UPWARD MOMENTUM	SURFACE PRESSURE
IRRIGATION EXTENT	SURFACE TEMP
LAND COVER TYPE	SURFACE WIND AMP
LATENT HEAT	SURFACE WIND SPEED
LIGHTNING DENSITY	TEMP LAPSE RATE
LIGHTNING DURATION	TEMP PROF
LIGHTNING FREQUENCY	TERRAIN TYPE
LIGHTNING LOCATION	TIDAL PERIOD
LIGHTNING SPECTRAL RANGE	TIDAL RANGE
LOCATION OF JET STREAM	TOPOGRAPHIC FEATURES
LOCATION OF SQUALL LINE	UPBURST
LONGWAVE RADIATION	VEGETATIVE COVER TYPE



Table 5.2.11. Parameters used by Severe Storms Discipline (cont.)

COMMONALITY DATA BASE

SELECTION: DI='SEVERE STORMS';

PARAMETER

VERT HUMIDITY PROF
VERT PRESSURE PROF
VERT TEMP PROF
VERT VELOCITY
VERT WIND PROF
VERT WIND SHEAR
VIRTUAL TEMP
WATER VAPOR
WATER VAPOR CONTENT
WAVE FORM
WIND DURATION
WIND SPEED

Table 5.2.12. Parameters used by Global Weather Discipline

COMMONALITY DATA BASE

SELECTION: DI='GLOBAL WEATHER';

PARAMETER	PARAMETER
AEROSOLS	H2O
AIR INSTABILITY	H2S
AIR TEMP	ICE BOUNDARY
AIR/SEA TEMP DIFF	ICE CONCEN
ASTRONOMICAL/STORM TIDES	ICE DEFORMATION RATE
BOUNDARY CHANGE	ICE DRIFT RATE
CFXCLY	ICE EXTENT
CH4	ICE LEAD FRACTIONAL AREA
CLO	ICE THICKNESS
CLOUD COVER	ICE/SNOW EXTENT
CLOUD LATENT HEAT RELEASE	ICE/SNOW SURFACE TEMP
CLOUD LEVEL	ICEBERG DEFORMATION RATE
CLOUD MOVEMENT	ICEBERG LOCATION
CLOUD PARTICLE SIZE DISTRIB	IONOS TEMP PROF
CLOUD TEMP	ISENTROPE TROUGH AMP
CLOUD THICKNESS	ISENTROPE TROUGH LOC
CLOUD TOP HEIGHT	JETSTREAM LOCATION
CLOUD TOP TEMP	LAND ALBEDO
CLOUD TYPE	LAND COVER TYPE
CLOUD/ATMOS ALBEDO	LAND SURFACE TEMP
CL2	LATENT HEAT
CO	LIGHTNING DURATION
COAST LINE	LIGHTNING FREQUENCY
CO2	LIGHTNING LOCATION
CRUSTAL UPLIFT, SUBSIDENCE	MAGMA TRANSPORT
CXHY	MAGNETIC FIELD STRENGTH
CXHYCL2	MARINE GEOID
CYCLONE LOCATION	MAXIMUM WIND SPEED
DEEPSEA CIRCULATION	NA, MG, CA, FE, AL, NI, R, LI, NAQ, MGO
DRAINAGE PATTERNS	NET RADIATION
DRIFT CURRENT	NEUTRAL DENSITY
DROUGHT INDEX	NH3
EARTH SPIN AXIS	NO
EARTH SPIN RATE	NO2
ELECTRICITY DISTRIB	N2O
EQ-TO-POLE RADIATION GRAD	O
EROSION RATE	OCEAN CURRENT
EVAPORATION RATE	OCEAN SURFACE PRESSURE
EVAPOTRANSPIRATION	OCEAN SURFACE WIND DIR
FRONTS LOCATION	OCEAN SURFACE WIND SPEED
FUEL MOISTURE	OCEAN TEMP PROF
F2	OCEAN TOPOGRAPHY
GAMMA RAY ENERGY DISTRIB	QH
H, HE, AR	OZONE
HCL	PB
HEAT CONTENT OF UPPER LAYER	PRECIP AMOUNT
HEAT TRANSPORT	PRECIP DURATION
HF	PRECIP EXTENT
HG	PRECIP FORM
HIGH PRESSURE PATTERN	PRECIP RATE
HN03	PRECIP TYPE
HO2, H2O2, H2O5, CLONO2, HOCL	PRECIP WATER PROF
H2CO	RELATIVE HUMIDITY



Table 5.2.12. Parameters used by Global Weather Discipline (cont.)

COMMONALITY DATA BASE

SELECTION: DI='GLOBAL WEATHER';

PARAMETER	PARAMETER
RELATIVE HUMIDITY	WIND STRESS
SALINITY	X-RAY ENERGY DISTRIB
SATURATION OF VADOSE ZONE	
SEA LEVEL HEIGHT	
SEA SURFACE TEMP	
SEDIMENT TRANSPORT AMP	
SEDIMENT TRANSPORT DIR	
SENSIBLE HEAT FLUX	
SHOAL/SHORELINE MOVEMENTS	
SNOW DEPTH	
SOIL MOISTURE	
SOLAR CONSTANT	
SOLAR FLUX	
SO2	
SPECIAL THERMAL SOURCES	
STORM DURATION	
STORM EXTENT	
STORM PATH	
SUBLIMATION RATE	
SUBSURFACE CURRENTS	
SUPCOOLED WATERDROP CONCEN	
SURFACE AIR TEMP	
SURFACE MELTING	
SURFACE PRESSURE	
SURFACE TEMP	
SURFACE WATER TEMP	
SURFACE WIND DIR	
SURFACE WIND SPEED	
THERMAL ANOMALIES	
THERMOCLINE DEPTH	
TOPOGRAPHIC FEATURES	
TOPSOIL TRANSPORT	
TRAPPED PARTICLE ENERGY	
UPPER OCEAN HEAT STORAGE	
UPWELLING EXTENT	
UPWELLING LOCATION	
VERT HUMIDITY PROF	
VERT PRESSURE PROF	
VERT TEMP PROF	
VERT WIND CONVECT DUCTS LOC	
VERT WIND CONVECT DUCTS SIZE	
VERT WIND PROF	
VERT WIND SHEAR	
VISIBILITY	
WATER ALBEDO	
WATER EQUIVALENT	
WATER EXTENT	
WATER TABLE DEPTH	
WATER VAPOR CONTENT	
WAVE SPECTRA	
WETLAND EXTENT	
WETLAND TYPE	
WIND SPEED	



Table 5.2.13. Parameters used by Climate Discipline

COMMONALITY DATA BASE

SELECTION. DI='CLIMATE',

PARAMETER	PARAMETER
AEROSOLS	OCEAN TEMP PROF
AIR TEMP	OCEAN WAVE HEIGHT
ASH & SAND ACCUM RATE	OCEAN WAVE LENGTH AMP
ASTRONOMICAL/STORM TIDES	OCEAN WIND STRESS
ATMOSPHERIC DUST CONTENT	OXYGEN
BENTHIC FOSSILS	OZONE
CFCLO	OZONE PROF
CF2CL2	PH-BALANCE
CLO	POLLEN TYPE CONCEN
CLOUD COVER	POLLUTANT CONCEN
CLOUD DIURNAL VARIATION	PRECIP EXTENT
CLOUD LEVEL	PRECIP OVER LAND
CLOUD THICKNESS	PRECIP OVER SEA
CLOUD TOP TEMP	PRECIP RATE
CLOUD TYPE	PRECIP TYPE
CLOUD/ATMOS ALBEDO	PRECIP WATER PROF
CO	RELATIVE HUMIDITY
CO2	RUNOFF VOLUME
CO2 MIXING RATIO	SALINITY
CURRENT LOCATION	SEA SURFACE PRESSURE
CURRENT VELOCITY	SEA SURFACE TEMP
EVAPORATION RATE	SEDIMENT
EVAPOTRANSPIRATION	SHIP LOCATION
FOSSIL PLANKTON COMPOS	SNOW COVER
HEAT CONTENT OF UPPER LAYER	SOIL MOISTURE
H2O	SOIL MOSITURE
ICE CONCEN	SOIL TEMP
ICE DRIFT RATE	SOIL TYPE
ICE EXTENT	SOLAR CONSTANT
ICE FLOE LOCATION	SOLAR FLUX
ICE FLOE SIZE	SO2
ICE MOVEMENT	SURFACE AIR TEMP
ICE SHEET LOCATION	SURFACE PRESSURE
ICE/SNOW ALBEDO	SURFACE TEMP
ICE/SNOW EXTENT	SURFACE WATER TEMP
ICE/SNOW FRACTION	SURFACE WIND
ICE/SNOW MELT	SURFACE WIND SPEED
ICE/SNOW SUBLIMATION RATE	TEMP ANAMOLIES
ICE/SNOW SURFACE TEMP	TOPOGRAPHIC FEATURES
ICE/SNOW THICKNESS	UPPER OCEAN LAYER TEMP
ICEBERG LOCATION	VEGETATIVE EXTENT
LAND ALBEDO	VERT HUMIDITY PROF
LAND SURFACE TEMP	VERT PRESSURE PROF
LONGWAVE RADIATION	VERT TEMP PROF
NET RADIATION	VERT WIND CONVECT DUCTS LOC
NOX	VERT WIND CONVECT DUCTS SIZE
OCEAN CURRENT	VERT WIND PROF
OCEAN SURFACE CURRENT AMP	VISIBILITY
OCEAN SURFACE CURRENT DIR	WATER ALBEDO
OCEAN SURFACE CURRENT LOC	WATER CONTENT
OCEAN SURFACE WIND DIR	WATER LEVEL
OCEAN SURFACE WIND SPEED	WATER VAPOR PROF
OCEAN TEMP PROF	WIND SPEED



Table 5.2.14. Parameters used by Geodynamics Discipline

COMMONALITY DATA BASE

SELECTION DI='GEODYNAMICS';

PARAMETER

ALTERATION FEATURES
ANOMALY LOCATION
BASELINE LENGTH
BASELINE MEASUREMENT
COLOR, TONAL PATTERNS
CREEP RATE
CRUSTAL UPLIFT, SUBSIDENCE
DEFORMATION RATE
DRAINAGE PATTERNS
EROSION TYPE
FAULTS, FRACTURES
FOLD ELEMENTS
GEOID LOCATION
GRAVITY FIELD STRENGTH
GROUND TILT
LAND COVER TYPE
LINEAMENTS
MAGNETIC FIELD STRENGTH
MAGNETIC PERTURBATIONS
MAIN MAGNETIC FIELD
PLATE MOTION
POLAR MOTION
POLAR POSITION
ROCK ALTERATION
ROCK TYPE
ROTATIONAL PERIOD
SEISMICITY
SLOPE, RELIEF
SOIL TYPE
SOLID EARTH TIDAL ACCEL
SOLID EARTH TIDAL DISPL
STRAIN RATES
STRATA ATTITUDE
STRESS, STRAIN
STRUCTURAL FEATURES
TERRAIN TYPE
TOPOGRAPHIC FEATURES
UNDULATION SIZE
UNIVERSAL TIME
VEGETATIVE COVER TYPE
VEGETATIVE PATTERNS
WATER LOCATION
WIND SPEED
WIND STRESS



Table 5.2.15. Parameters used by Non-Renewable Resources

COMMONALITY DATA BASE

SELECTION. DI='NON-RENEWABLE RESOURCES',

PARAMETER

ALTERATION FEATURES
COLOR, TONAL PATTERNS
CRUSTAL UPLIFT, SUBSIDENCE
DRAINAGE PATTERNS
EROSION TYPE
FAULTS, FRACTURES
FOLD ELEMENTS
FROZEN GROUND EXTENT
GRAVITY FIELD STRENGTH
LAND COVER TYPE
LINEAMENTS
MAGNETIC FIELD STRENGTH
MINERAL SUBSTANCES
PLANT TYPE
ROCK ALTERATION
ROCK FORMATION
ROCK TYPE
SEISMICITY
SLOPE, RELIEF
SOIL MOISTURE
SOIL TEXTURE
SOIL TYPE
STRATA ATTITUDE
STRUCTURAL ANOMALIES
STRUCTURAL FEATURES
SURFACE TEMP
TERRAIN TYPE
THERMAL ANOMALIES
THERMAL PROPERTIES
TOPOGRAPHIC FEATURES
VEGETATIVE CONDITION
VEGETATIVE COVER TYPE
VEGETATIVE PATTERNS
WATER LOCATION



Table 5.2.16. Parameters used by Land Use Discipline

COMMONALITY DATA BASE

SELECTION. DI='LAND USE',

PARAMETER	PARAMETER
ABIDOTIC STRESS	PLANT DENSITY
ASPECT	PLANT DISEASE EXTENT
ASTRONOMICAL/STORM TIDES	PLANT DISEASE TYPE
CHEMICAL PESTICIDE CONCEN	PLANT GROWTH RATE
CHEMICAL PESTICIDE EXTENT	PLANT GROWTH STAGE
CHEMICAL PESTICIDE TYPE	PLANT TYPE
CHEMICAL POLLUTANT CONCEN	PRECIP AMOUNT
CHEMICAL POLLUTANT EXTENT	PRECIP EXTENT
CHEMICAL POLLUTANT TYPE	PRECIP RATE
CHLOROPHYLL	PRECIP TYPE
COASTAL/ESTUARY CIR AMP	PRECIP WATER PROF
COASTAL/ESTUARY CIR DIR	RADIOACTIVE NUCLID EXTENT
COASTAL/ESTUARY CIR LOC	RADIOACTIVE NUCLIDE EXTENT
COLOR, TONAL PATTERNS	RADIOACTIVE NUCLIDE STRENGTH
CULTIVATION EXTENT	RADIOACTIVE NUCLIDES TYPE
CULTIVATION INTENSITY	RADIOACTIVE WASTE EXTENT
CULTIVATION METHOD	RADIOACTIVE WASTE STRENGTH
CULTIVATION TYPE	ROCK TYPE
DISSOLVED NUTRIENTS	SALINITY
DISSOLVED OXYGEN	SATURATION OF VADOSE ZONE
DRAINAGE PATTERNS	SATURATION VADOSE ZONE
DROUGHT INDEX	SEA SURFACE TEMP
EVAPORATION RATE	SEA SURFACE TEMP
FLOOD PLAIN EXTENT	SEDIMENT TRANSPORT AMP
FUEL MOISTURE	SEDIMENT TRANSPORT DIR
ICE THICKNESS	SEDIMENT TRANSPORT EXTENT
ICE/SNOW EXTENT	SEDIMENT TRANSPORT LOC
ICE/SNOW MELT	SEDIMENTATION RATE
ICE/SNOW SUBLIMATION RATE	SHOAL/SHORELINE MOVEMENT
IRRIGATION EXTENT	SHOAL/SHORELINE MOVEMENTS
LAND ALBEDO	SLOPE, RELIEF
LAND COVER TYPE	SNOW DEPTH
LAND SURFACE TEMP	SNOW/ICE EXTENT
LEAF AREA INDEX	SOIL CHEMISTRY
METAL CONCENT PROF	SOIL CHEMISTRY
MINERAL LOCATION	SOIL GRANULARITY
MINING/DRILLING LAND USE	SOIL MOISTURE
OCEAN SURFACE CURRENT AMP	SOIL ORGANIC CONTENT
OCEAN SURFACE CURRENT DIR	SOIL PERMEABILITY
OCEAN SURFACE CURRENT LOC	SOIL POROSITY
OCEAN SURFACE WIND DIR	SOIL POROSITY
OCEAN SURFACE WIND SPEED	SOIL PROPERTIES
OCEAN WAVE AMP	SOIL TYPE
OCEAN WAVE HEIGHT	SOIL/ROCK COMPOSITION
OCEAN WAVE LENGTH DIR	SOLID WASTE EXTENT
ORGANIC MATERIALS	SOLID WASTE IDENTIFICATION
PESTICIDE POLLUTANT TYPE	SURFACE AIR TEMP
PETROLEUM POLLUTANT EXTENT	SURFACE ROUGHNESS
PETROLEUM POLLUTANT THICKNESS	SURFACE WATER TEMP
PETROLEUM POLLUTANT TYPE	SUSPENDED SEDIMENT CONCEN
PH-BALANCE	TERRAIN TYPE
PLANT CONDITION	THERMAL PROPERTIES
PLANT DENSITY	



Table 5.2.16. Parameters used by Land Use Discipline (cont.)

COMMONALITY DATA BASE

SELECTION: DI='LAND USE',

PARAMETER

THERMAL PROPERTIES
TIDAL EFFECTS
TIDAL PROPERTIES
TOPOGRAPHIC FEATURES
TOPSOIL DEPTH
TOPSOIL TRANSPORT
TURBIDITY
UPWELLING EXTENT
UPWELLING LOCATION
URBAN LAND USE
VEGETATIVE COVER TYPE
VEGETATIVE DAMAGE EXTENT
VEGETATIVE DAMAGE TYPE
VEGETATIVE EXTENT
VEGETATIVE PATTERNS
VEGETATIVE TYPE
VERT TEMP PROF
VERT WATER TEMP PROF
VERT WIND CONVECT DUCTS LOC
VERT WIND CONVECT DUCTS SIZE
VERT WIND PROF AMP
VERT WIND PROF DIR
WATER ALBEDO
WATER DEPTH
WATER EQUIVALENT
WATER EXTENT
WATER LOCATION
WATER TABLE DEPTH
WATER TYPE
WETLAND EXTENT
WETLAND TYPE



sheet includes: desired accuracy, based accuracy, accuracy units, high and low values of horizontal resolution, horizontal resolution units, high and low values of vertical resolution, vertical resolution units, freshness, frequency of update, duration, areal coverage, observation time, and comments. These terms have been defined in section 4.2. Individual data sheets can be selected based on tree number or application/subapplication name. A sample data sheet is shown in figure 5.2.1.

5.2.2 BIBLIOGRAPHY

The database can list the entire bibliography consisting of reference number, author, and title in alphabetic order by author's last name or in numerical order by reference number. Individual references can be selected by either reference number or authors' name. The complete bibliography is contained in the last section of Volume II, a sample of the bibliography is shown in figure 5.2.2.

5.2.3 DISCIPLINE - APPLICATION

The database can select on a given discipline and output a listing of tree numbers, applications and subapplications used by that discipline. The output can be ordered numerically by tree number or alphabetically by application title. A sample printout of this type is shown in table 5.2.3.

5.2.4 DISCIPLINE - PARAMETER

Given a discipline name the database can list all parameters used by that discipline. Tables 5.2.4 through 5.2.16 show the parameters used by each of the thirteen OSTA disciplines. The listing could include any or all of the parameter characteristics.

5.2.5 PARAMETER - APPLICATION/SUBAPPLICATION

Given a parameter the Commonality Database can list all disciplines, applications, subapplications where that parameter is used. Table 5.2.17 shows all tree numbers, disciplines and applications that use 'ocean surface wind speed.' Table 5.2.18 shows the accuracy and resolution

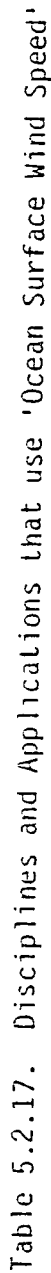


Table 5.2.17. Disciplines and Applications that use 'Ocean Surface Wind Speed'.

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Table 5.2.18. Requirements by Applications for 'Ocean Surface Wind Speed'

COMMONALITY DATA BASE									
SUBSELECTION		SELECTION 4.		PR = 'OCEAN SURFACE WIND SPEED'					
APPLICATION TITLE	TREE	REFER	DES. ACCUR.	BASED. ACCUR.	ACCUR. UNITS	LOW HORIZ. RESOL.	HIGH HORIZ. RESOL.	HORIZ. RES. UNITS	
POLAR ICE MOTION	5331123	L-34	2	3.	M/S	25.	50	KM	
SEA ICE MOVEMENT	11233	L-109	0.1		DEG/M	20.00	50.00	KM	
SOIL MOISTURE STUDIES	5331123	L-160	0.5	0.5	M/S	0.050	500.00	KM	
SNOWMELT MONITORING	22224	L-162			M/S	0.01	10.0	KM	
TRANSPORTATION/NAVIGATION	22224	L-162			M/S	0.01	10.0	KM	
POLLUTANT WATER	22224	L-160			M/S	0.01	10.0	KM	
POLLUTION MONITORING	3333222	L-0	0.1	1.0	DEG/C	0.05	2.0	KM	
POLLUTION MONITORING	3333222	L-155	1.0	2.	M/S	50	100.	KM	
OIL SPILL AND WASTE MONITORING	6733222	L-155	1.0	2.	M/S	50.0	50.0	KM	
TROPOSPHERIC AEROSOLS	7711113	L-1	0.2		M	10	100	KM	
OCEAN BIOLOGY	7711113	L-155	1.	3.	N/S	5.0	25.0	KM	
OCEAN DYNAMICS	7711113	L-155	1.	2.	M/S	10.0	50.0	KM	
OCEAN DEPTH AND SURFACE TOPOGRAPHY	7711113	L-155	1.	2.	M/S	10.0	50.0	KM	
OCEAN CLIMATE	7711113	L-0	2.		M/S	10.0	50.0	KM	
OCEAN CURRENT STUDIES	7711113	L-155	1	2	M/S	10.0	50.0	KM	
OCEAN CURRENT STUDIES	7711113	L-155	1	2	M/S	10.0	50.0	KM	
MARINE SEARCH AND RESCUE	7742333	L-25	2.		M/S	10.0	50.0	KM	
TRAFFIC MANAGEMENT	7742333	L-155	1.	2.	M/S	10.0	50.0	KM	
OCEAN CURRENT PREDICTION	7742333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ROLE IN THE CLIMATIC CHANGE	7742333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ROLE IN THE CLIMATIC CHANGE	7742333	L-160	1	2	M/S	10.0	50.0	KM	
CHEMICAL OCEAN RESEARCH	7753333	L-160	1	2	M/S	10.0	50.0	KM	
MARINE GEOLOGY	7753333	L-160	1	2	M/S	10.0	50.0	KM	
MARINE GEOLOGY	7753333	L-160	1	2	M/S	10.0	50.0	KM	
LIVING MARINE RESOURCES	7753333	L-160	1	2	M/S	10.0	50.0	KM	
LIVING MARINE RESOURCES	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ENGINEERING	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ENGINEERING	7753333	L-160	1	2	M/S	10.0	50.0	KM	
COASTAL OCEAN CONDITION FORECASTING	7753333	L-160	1	2	M/S	10.0	50.0	KM	
COASTAL OCEAN CONDITION FORECASTING	7753333	L-160	1	2	M/S	10.0	50.0	KM	
PHYSICAL OCEAN RESEARCH	7753333	L-160	1	2	M/S	10.0	50.0	KM	
PHYSICAL OCEAN RESEARCH	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN CONTAMINATION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OUTTER CONTINENTAL ENERGY ASSESSMENT	7753333	L-160	1	2	M/S	10.0	50.0	KM	
WEATHER FORECASTS	7753333	L-160	1	2	M/S	10.0	50.0	KM	
WEATHER FORECASTS	7753333	L-160	1	2	M/S	10.0	50.0	KM	
SEVERE STORM WARNINGS AND FORECASTS	7753333	L-160	1	2	M/S	10.0	50.0	KM	
AIR QUALITY	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN SURFACE LAYER PROCESSES	7753333	L-160	1	2	M/S	10.0	50.0	KM	
GENERAL OCEAN CIRCULATION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
MONSOON EXPERIMENT	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ATMOSPHERIC INTERACTION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ATMOSPHERIC INTERACTION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ATMOSPHERIC INTERACTION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
OCEAN ATMOSPHERIC INTERACTION	7753333	L-160	1	2	M/S	10.0	50.0	KM	
FISHERY	1011123	L-163	0.5	1.	M/S	10.	50	KM	
FISHERY	1011123	L-163	0.5	1.	M/S	10.	50	KM	
DEFENSE STRATEGIC PLANNING	1011123	L-163	5	20	%	5	100.	KM	
MILITARY OPERATION PLANNING	1011123	L-163	5	20	%	5	100.	KM	
SOCIAL/POLITICAL/ECONOMIC MAPPING	131124	L-167	1	2	%	500	500.	KM	



requirements for each application that uses 'ocean surface wind speed.' Table 5.2.19 shows the disciplines and applications that use 'soil moisture.'

5.2.6 CHANGES IN PARAMETER CHARACTERISTICS

For a given parameter the range of a characteristic can be selected. Thus it is possible to see what applications can be satisfied as the range of one or more characteristics change. This is a particularly useful feature for determining real commonality. This would also allow the evaluation of how changes in sensor capability and/or processing would affect the number of applications that could use the parameter. Table 5.2.20 shows how the number of applications that can use 'ocean surface wind speed' change as the value of horizontal resolution changes. The same type of subselection could be used on any of the parameteric characteristics.

Table 5.2.19. Disciplines and Applications that use 'Soil Moisture'

COMMONALITY DATA BASE				
DISCIPLINE TITLE	SELECTION PR='SOIL MOISTURE', APPLICATION TITLE	TREE	REFER.	
AGRICULTURE	SOIL CLASSIFICATION	1 1 2	A-13	
AGRICULTURE	YIELD/PRODUCTIVITY STUDIES	1 1 1 4	A-6	
AGRICULTURE	SOIL MOISTURE APPLICATIONS	1 1 1 2 2 3	A-10	
AGRICULTURE	SOIL MOISTURE APPLICATIONS	1 1 1 2 2 3	A-14	
AGRICULTURE	SOIL PRODUCTIVITY STUDIES	1 1 1 2 4	L-167	
AGRICULTURE	SOIL EROSION APPLICATIONS	1 1 1 2 4	L-0	
AGRICULTURE	YIELD/PRODUCTIVITY STUDIES	1 2 1 1 2	A-6	
AGRICULTURE	RANGELAND CONDITION MONITORING	1 1 1 1 2	A-29	
AGRICULTURE	SPECTRAL SEPARABILITY OF CROPS	1 1 1 1 1 4 3	A-23	
AGRICULTURE	YIELD MODELING	1 1 1 1 1	A-6	
AGRICULTURE	SOIL MAPPING	1 1 1 2 1	A-13	
AGRICULTURE	SOIL MOISTURE MAPPING	1 1 1 2 2 2 2 3	A-10	
AGRICULTURE	SOIL MOISTURE MAPPING	1 1 1 2 2 2 2 3	A-10	
AGRICULTURE	SOIL MOISTURE MODELING	1 1 1 2 2 2 2 3	A-10	
AGRICULTURE	IRRIGATION MANAGEMENT	1 1 1 2 2 2 3	A-14	
AGRICULTURE	IRRIGATION MANAGEMENT	1 1 1 2 2 2 3	A-14	
AGRICULTURE	GRASSLANDS MANAGEMENT	1 3 1 4 1	L-160	
AGRICULTURE	GRAZING LANDS MANAGEMENT	1 3 1 4 1	L-160	
AGRICULTURE	FOREST MANAGEMENT	1 2 1 4 3	L-167	
AGRICULTURE	FOREST RESEARCH	1 2 1 5	L-167	
CLIMATE	AGRICULTURE	10 1 1 1	L-161	
CLIMATE	GENERAL CIRCULATION MODEL	10 2 1 1 4	L-1	
CLIMATE	RADIATION AND THE GLOBAL ENERGY BALANCE	10 2 3 1 5	L-51	
CRYOSPHERE	SNOW MELTING MODELLING	5 2 1 1	L-34	
GLOBAL WEATHER	GLOBAL WATER BALANCE	9 2 1 3 4	L-0	
LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING	13 1 2 4	L-167	
LAND USE	SOCIAL/POLITICAL/ECONOMIC MAPPING	13 1 2 4	L-167	
LAND USE	LAND USE MANAGEMENT	13 3	L-167	
NON-RENEWABLE RESOURCES	GEOLOGICAL ECONOMIC RESOURCES	12 1 1 3 1	L-10	
SEVERE STORMS	FLASH FLOOD WARNING/PREDICTION	8 1 1 4	L-0	
WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT	2 1 1 7 1	L-160	
WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT	2 1 1 7 3	L-112	
WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT	2 1 1 7 4	L-112	
WATER RESOURCES	RUNOFF MONITORING/ASSESSMENT	2 1 1 7 5	L-81	
WATER RESOURCES	SOIL MOISTURE STUDIES	2 1 2 2 1	L-160	
WATER RESOURCES	SOIL MOISTURE STUDIES	2 1 2 2 3	L-109	

Table 5.2.19. Disciplines and Applications that use 'Soil Moisture'(cont.)

COMMONALITY DATA BASE				
DISCIPLINE TITLE	SELECTION PR='SOIL MOISTURE',		TREE	REFER.
	APPLICATION TITLE			
WATER RESOURCES	SOIL MOISTURE STUDIES	1	2	L-105
WATER RESOURCES	SOIL MOISTURE STUDIES	1	2	L-111
WATER RESOURCES	SOIL MOISTURE STUDIES	1	2	L-81
WATER RESOURCES	SNOWMELT MONITORING	1	2	L-160
WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION	1	4	L-111
WATER RESOURCES	ANTECEDENT PRECIP INDEX DETERMINATION	1	4	L-160
WATER RESOURCES	EVAPOTRANSPIRATION MODELING	1	1	L-160
WATER RESOURCES	EVAPOTRANSPIRATION MODELING	1	1	L-100
WATER RESOURCES	EVAPOTRANSPIRATION MODELING	1	1	L-114
WATER RESOURCES	RUNOFF MODELING	1	1	L-100
WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT	1	2	L-100
WATER RESOURCES	WATER REQUIREMENTS ASSESSMENT	1	2	L-160
WATER RESOURCES	WATER REGTS EVAL FOR CROP RESOURCES MGT	1	2	L-167
WATER RESOURCES	IRRIGATION SCHEDULING BASED ON SOIL MOISTURE	1	4	L-167
WATER RESOURCES	FLOOD AREA MAPPING	1	1	L-100
WATER RESOURCES	FLOOD AREA MAPPING	1	1	L-156
WATER RESOURCES	FLOOD AREA MAPPING	1	1	L-160
WATER QUALITY	POLLUTION MONITORING	2	1	L-160



Table 5.2.20 Change is Horizontal Resolution Reduces Number of Possible Applications

COMMONALITY DATA BASE					SELECTION PR='OCEAN SURFACE WIND SPEED' SUBSELECTION SH>1 ,			
TREE	REFER	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	APPLICATION TITLE			
5311221	L-34	25	50	KM	POLAR ICE MOTION			
5311222	L-34	25	50	KM	SEA ICE MOVEMENT			
5311223	L-109	20 00	50 00	KM	SOIL MOISTURE STUDIES			
2641112	L-162	5	10	KM	TRANSPORTATION/NAVIGATION			
7732233	L-0	50	100	KM	TROPOSPHERIC AEROSOLS			
7732234	L-155	10	50	KM	OCEAN BIOLOGY			
7711112	L-155	50 0	50 0	KM	OCEAN DYNAMICS			
7711113	L-1	10	100	KM	MARINE GEODESY AND SURFACE TOPOGRAPHY			
7711132	L-155	50	25 0	KM	OCEAN CURRENT STUDIES			
7742333	L-0	10 0	50 0	KM	MARINE SEARCH AND RESCUE			
7742334	L-155	10 0	50 0	KM	OCEAN CURRENT PREDICTION			
7741411	L-155	10 0	50 0	KM	OCEAN CURRENT PREDICTION			
7742441	L-155	10 0	50 0	KM	OCEAN ROLE IN THE CLIMATIC CHANGE			
7732244	L-160	10 0	50 0	KM	OCEAN ROLE IN THE CLIMATIC CHANGE			
7752111	L-162	50 0	100 0	KM	LIVING MARINE RESOURCES			
7711114	L-161	50 0	100 0	KM	OCEAN ENGINEERING			
7711115	L-155	100 0	50 0	KM	COASTAL OCEAN CONDITION FORECASTING			
9111121	L-162	100	200	KM	OUTTER CONTINENTAL ENERGY ASSESSMENT			
9115411	L-162	50	10	KM	WEATHER FORECASTS			
9122121	L-162	50	100	KM	WEATHER FORECASTS			
9223221	L-66	50	500	KM	AIR QUALITY			
9223222	L-155	25	25	KM	OCEAN SURFACE LAYER PROCESSES			
9223223	L-155	25	25	KM	GENERAL OCEAN CIRCULATION			
9223224	L-1	20	20	KM	MONSOON EXPERIMENT			
9223225	L-155	10	50	KM	OCEAN ATMOSPHERIC INTERACTION			
9223226	L-155	10	50	KM	OCEAN ATMOSPHERIC INTERACTION			
1011121	L-162	5	100	KM	FISHERY			
1011122	L-162	100	10	KM	FISHERY			
1011141	L-163	10	25	KM	DEFENSE STRATEGIC PLANNING			
1011421	L-163	10	25	KM	MILITARY OPERATION PLANNING			
1011221	L-0	500	500	KM	CONSTRUCTION			

Table 5.2.20 Change is Horizontal Resolution Reduces Number of Possible Applications

COMMONALITY DATA BASE					
SELECTION PR='OCEAN SURFACE WIND SPEED', SUBSELECTION SH>10,					
TREE	REFER	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	APPLICATION TITLE
5311221	L-34	25	50	KM	POLAR ICE MOTION
5311221	L-34	25	50	KM	SEA ICE MOVEMENT
5311221	L-109	20 00	50 00	KM	SOIL MOISTURE STUDIES
5311221	L-0	50 0	100	KM	TROPOSPHERIC AEROSOLS
5311221	L-155	50 0	50 0	KM	OCEAN DYNAMICS
7511111	L-162	50 0	100 0	KM	OCEAN ENGINEERING
7511111	L-162	100	200	KM	WEATHER FORECASTS
9115411	L-162	50	100	KM	AIR QUALITY
9115411	L-162	100	500	KM	OCEAN SURFACE LAYER PROCESSES
9115411	L-162	50	100	KM	GENERAL OCEAN CIRCULATION
9115411	L-162	25	50	KM	MONSOON EXPERIMENT
9115411	L-162	20	25	KM	OCEAN ATMOSPHERIC INTERACTION
1011221	L-0	100	10	KM	FISHERY
1011221	L-0	500	500	KM	CONSTRUCTION
COMMONALITY DATA BASE					
SELECTION PR='OCEAN SURFACE WIND SPEED', SUBSELECTION SH>49,					
TREE	REFER	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	APPLICATION TITLE
432161	L-0	50	100	KM	TROPOSPHERIC AEROSOLS
432161	L-155	50 0	50 0	KM	OCEAN DYNAMICS
432161	L-162	50 0	100 0	KM	OCEAN ENGINEERING
432161	L-162	100	200	KM	WEATHER FORECASTS
432161	L-162	50	100	KM	AIR QUALITY
432161	L-162	100	500	KM	OCEAN SURFACE LAYER PROCESSES
432161	L-162	50	50	KM	GENERAL OCEAN CIRCULATION
1011221	L-0	100	10	KM	FISHERY
1011221	L-0	500	500	KM	CONSTRUCTION
COMMONALITY DATA BASE					
SELECTION PR='OCEAN SURFACE WIND SPEED', SUBSELECTION SH>50					
TREE	REFER	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	APPLICATION TITLE
911111	L-162	100	200	KM	WEATHER FORECASTS
92211	L-66	100	500	KM	OCEAN SURFACE LAYER PROCESSES
1011221	L-162	100	10	KM	FISHERY
1011221	L-0	500	500	KM	CONSTRUCTION



SECTION 6. RECOMMENDATIONS AND CONCLUSIONS



SECTION 6. RECOMMENDATIONS AND CONCLUSIONS

6.1 SUMMARY

The Commonality Database contains about 500 applications, nearly 7000 parameter requirements records, and a bibliography of about 400 references. As was discussed in section 5.2 this data is readily available in a number of different configurations selectable by the user. The Commonality Database brings together a great deal of information that was scattered throughout various references, study reports, and individual expertise and makes it easily accessible.

Typical important questions that could be answered by a Commonality Database include:

- o What applications use a given parameter?
- o From among the applications that use a given parameter which have similar requirement characteristics?
- o What are the parameters and their requirements needed by an investigation, application or discipline?
- o What is the optimum number of data sets of a parameter needed to met the requirements of all/most users?
- o What reference material is available concerning a particular application or parameter?
- o Given a set of parameters and their associated characteristics what applications can be served?
 - What additional applications can be served by a change in specific characteristics?
 - What applications can no longer be served by reducing the characteristics on specific parameters?

If sensor data were added to the database, it could answer:

- o How well do current sensor capabilities meet user requirements?



- o What improvements in the accuracy, resolution, etc. of a sensor measurement are needed to satisfy additional users?
- o If the capabilities of a sensor, timeliness of data processing or data distribution are changed what will be the impact on meeting user requirements?
- o What sensors, models or other applications could supply a given parameter?

If the Commonality Database is expanded and kept current it could:

- o Provide a valuable tool for management planning and decision making.
- o Provide a central repository for information contained in numerous reports, documents, plans, personal files, references, and individual expertise.
- o Provide a "living source" of up-to-date information.

6.2 NEED FOR COMMONALITY DATABASE

6.2.1 SOURCE OF REFERENCES

One of the most pressing problems facing all of us today is that of information explosion. It is extremely difficult for anyone to be aware of all the available reports, analysis and research papers, various studies, and other documentation relevant to these activities. Often a great deal of time and effort could be saved if critical documents were available. During the course of this study nearly 400 references were reviewed. Bibliographic information on all of these references is in the Commonality Database and a complete listing is included in section 14 of Volume II of this report. It is strongly recommended that this list be expanded and updated on a regular basis.

At the present time no central file for these documents exists. Study reports are often only in personal libraries. While it would certainly be



desirable to have all of the reference material in one physical location this may not be possible at this time.

An alternative would be to add locator information to the database. This would be a simple and inexpensive way of making it easier to locate study reports, research papers and other important reference items.

6.2.2 OVERVIEW OF APPLICATIONS

At the present time there is no mechanisms to provide an overview of the many and varied applications supported by OSTA over the years. The Commonality Database could provide the traceability necessary to produce an historical summary. It would be beneficial to be able to reference earlier investigations concerned with the same application. Often this could eliminate redeveloping algorithms that were used before. Most of the historical information is contained in the memory or files of individual discipline experts. As these people retire or leave the agency much value information is lost.

6.2.3 PARAMETER COMMONALITY

One of the basic questions that could be answered by the Commonality Database is, "What applications or disciplines use a given parameters?" Is the given parameter unique to one or two applications or is its use wide spread? If the parameter has a large community of users then the next question would be, From among the applications that use this parameter which have similar requirement characteristics? This information would be a valuable input for determining the optimum number of data sets of a parameter needed to meet the requirements of all or most of the users.

6.2.4 OVERVIEW OF PARAMETER REQUIREMENTS

There is no mechanism to provide a summary of the many observables, data sets and/or physical parameters used within the many OSTA applications. Without a full appreciation for the interdisciplinary commonality of requirements for input data there is apt to be needless duplication of effort. Data collected for a given project could often be used by other investigations within the same discipline area or in other discipline



areas. The Commonality Database provides a quick and convenient means of determining where these commonalities exist. By examination of the parameter requirement characteristics it can be determined if this commonality is real or only apparent. During these times of budgetary restrictions it is especially important that the various application groups cooperate where ever possible to obtain the maximum scientific benefit from the data available.

6.3 RECOMMENDATIONS

6.3.1 NEED FOR SENSOR DATA

It is strongly recommended that sensor data be added to the Commonality Database. The sensor data should be of two types, sensor characteristic criteria and parameter determination capabilities. The addition of sensor data would significantly enhance the usefulness of the database. The database could provide information concerning how well current sensor capabilities meet user requirements. It could identify what improvements in accuracy, resolution, etc. of a sensor measurement are needed to satisfy additional users.

The database could be used to determine alternative sensors, models, or other applications which could supply a given parameter.

The Commonality Database could provide valuable inputs to management decision making. It could be used for sensitivity analysis concerning the impact on meeting user requirements resulting from changes in the capabilities of a sensor, timeliness of data processing, or data distribution. It could be used in cost-benefit analysis of proposed new sensors, by comparing the performance criteria for the proposed sensor with actual user requirements.

6.3.2 NEED FOR EXPANSION AND UPDATING

It is recommended that the Commonality Database be expanded and update periodically. If it is to be of value to its users, the database must be as complete and up-to-date as possible. The database has been designed to



provide the flexible necessary to accommodate additional data types and to response to a variety of user requests.

